Glencoe Algebra 2

Publisher: Glencoe/ McGraw Hill

Evaluator Name(s): Durham, Lori Kettler, Michael

Content Level: Algebra 2

Overall Strengths and/or Weaknesses

Disclaimer: Comments on the strengths and/or weaknesses of each book or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions. They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/Instructional Materials Review team completed each evaluation form during the week of July 8-12, 2002. In order to maintain the integrity of the review team's comments, editing was limited to spelling and punctuation.

CONTENT/PROCESS
Strengths: Textbook addresses sampling techniques, sampling bias, and probability simulations. Nearly all of the Core Content bullets are addressed.
Weaknesses: Textbook addresses the closure property only in the enrichment ancillary book.

ASSESSMENT
Strengths: The variety of assessments available is comprehensive. On-line self-checking student lesson quizzes are available, with each question keyed to the appropriate lesson.
Weaknesses: Multi-step, CATS-like open-response questions were limited. However, Kentucky-specific material was not available for review.

ORGANIZATION AND STRUCTURE
Strengths: The glossary is in Spanish as well as English. Vocabulary terms are highlighted in yellow.
Weaknesses: The content addressed in Chapter 5 was extensive for one chapter.

STUDENT EXPERIENCES
Strengths: Algebra Activity Follow Ups have students doing mathematics in non-routine ways. There is a wide variety of activities for students to demonstrate what they have learned. Students are provided the opportunity to speak about, write about, and model mathematics through open-ended questions .
Weaknesses: No weaknesses were observed.

TECHNOLOGY
Strength: On-line student resources are user-friendly. Textbook is available on CD and will be available on-line by Fall 2003. Spreadsheet activities are available.
Weaknesses: Calculator keystroke instructions are included, but they are spread throughout the textbook and ancillary materials.

RESOURCE MATERIALS
Strengths: Icons referencing teacher resources are at the beginning of each section. Activities addressing multiple intelligences are specifically listed.
Weaknesses: Not all of the teacher resources are available on-line. Suggestions for home/ school/ community involvement are limited.

If this material is available in digital format, KDE strongly recommends that it be considered if there are students in the school who have a need for this type of material. **Is Not Available in digital format**

Recommended by reviewers to State Textbook Commission as a basal textbook or program.

OTHER COMMENTS:

PUBLISHER'S EXPLANATION OF REVIEWERS' COMMENTS
(By action of the State Textbook Commission, publishers are being provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the written evaluation.)
There are open-ended questions in virtually all lessons. For example, see Exercise 3 in the Check for Understanding on page 178. Additionally, we will provide an accompanying workbook Providing for the 11th Grade CATS tying practice to the KCCT test for mathematics. The Kentucky TestCheck and Worksheet Builder CD-ROM software for Kentucky contains correlations to the Kentucky Core Content and allows teachers to easily create assessments for individual lessons and chapters linked to Kentucky Core Content.
Digital format:
-Glencoe's Interactive Student Edition CD-ROM was developed in Adobe Acrobat 5.0 for Windows with Search and Accessibility.
-Acrobat Reader 5.0 includes support for screen readers (accessibility) via the Microsoft Active Access API (MSAA).
-When online textbooks become available at www.mhln.com, the site will conform to Section 508 development standards.

STANDARDS FOR MATHEMATICS EVALUATION INSTRUMENT

Content/Process

1. **Material is comprehensive and includes content emphasized in Kentucky's Learning Goals and Academic Expectations and supported by the Core Content for Assessment, Program of Studies, and relevant National Standards.**

Rating: Strong
Comments:

2. **Content appears to be free from factual errors.**

Rating: Strong
Comments:

3. **Content makes connections to other content areas across the curriculum.**

Rating: Strong
Comments:

4. **Concepts and application of skills to real-life situations are introduced when appropriate.**

Rating: Strong
Comments:

5. Content appears to be free of social, ethnic, racial, religious, gender, and geographic bias.
Rating: Strong
Comments:

6. Material is flexible and accommodates various learning styles, interest/ability levels, and intelligences, including adaptations and accommodations for students with special needs.
Rating: Strong
Comments:

7. Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.
Rating: Strong
Comments:

8. Content reflects research-based practices (e.g., hands-on activities, technology, problem-solving situations).
Rating: Strong
Comments:

9. Concepts are explored in depth and reinforced throughout.
Rating: Strong
Comments:

Assessment

1. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.
Rating: Strong
Comments:

2. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.
Rating: Strong
Comments:

3. Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.
Rating: Strong
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4. **A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**

Rating: Strong
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5. **Assessment activities provide opportunities for student integration of technology in the assessment process.**

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Publisher: Glencoe/ McGraw Hill

Organization and Structure

1. Organization is logical and allows for spiraling of content.
Rating: Adequate
Comments:

2. Language is clear and concise with correct grammar and sentence structure.
Rating: Adequate
Comments:

3. Vocabulary and key terms are clearly defined and easily accessible within each lesson.
Rating: Adequate
Comments:

4. Visual illustrations (e.g., graphs, charts, models) and examples are clearly presented and content-related.
Rating: Adequate
Comments:

5. Illustrations and language reflect diversity (e.g., racial, ethnic, cultural, age, gender, disabilities).
Rating: Adequate
Comments:

6. Legible type, length of lines, spacing, page layout, and width of margins contribute to overall appearance and use.
Rating: Adequate
Comments:

7. Student materials seem durable and conducive to daily student use (e.g., size, weight).
Rating: Adequate
Comments:

8. Textbook includes appropriate and sufficient glossary, index, and appendices.
Rating: Adequate
Comments:

9. Materials are organized into units of study (or similar structures) with daily lessons that include worthwhile, real-world tasks.
Rating: Adequate
Comments:

10. Materials can be easily understood by students and parents.
Rating: Adequate
Comments:

Student Experiences

1. The program emphasizes students *doing* mathematics rather than *memorizing* mathematics.
Rating: Adequate
Comments:

2. Both group and individual activities are included.
Rating: Adequate
Comments:

3. Materials and activities provide authentic applications that allow students to make meaningful connections across the curriculum, to real-world situations, and to interrelated mathematical concepts.
Rating: Adequate
Comments:

4. Materials and activities encourage students to explore and investigate mathematical ideas through various problem-solving techniques.
Rating: Adequate
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5. Materials and activities encourage students to read, write, and discuss mathematics.
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Rating: Adequate
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Glencoe Algebra 2

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Technology

1. **In order for students to focus on decision-making, reflection, reasoning, and problem solving, instructional activities incorporate the use of technology (e.g. calculators, probes, computers) and include instructions on how to use the technology tools.**

Rating: Adequate
Comments:

2. **Various forms of media are included (e.g., CDs, videos, computer software).**

Rating: Adequate
Comments:

3. **Student materials are available online.**

Rating: Adequate
Comments:

Resource Materials

1. **Teacher materials coordinate easily with student materials (e.g., additional resources included at point of need, student pages shown, manipulatives appropriate for indicated lesson, instructional technology indicated).**

Rating: Strong
Comments:

2. **Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.**

Rating: Strong
Comments:

3. **Extension activities including adaptations and accommodations for students with special needs.**

Rating: Strong
Comments:

4. **Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections within mathematics, and references (e.g., solutions manuals, study guides).**

Rating: Strong
Comments:

5. Suggestions are made for integration of themes and/or interdisciplinary instruction.
Rating: Strong
Comments:

6. Suggestions are made for family and community involvement and school/home communication.
Rating: Strong
Comments:

7. The included media are durable, easy to use, and have technical merit.
Rating: Strong
Comments:

8. Teacher resources are available online.
Rating: Strong
Comments:

Contemporary Mathematics in Context: A Unified Approach, Course 2, Part A & B

Publisher: Glencoe/ McGraw-Hill

Evaluator Name(s): Durham, Lori Kettler, Michael Durham, Keith

Content Level: Integrated Math

Overall Strengths and/or Weaknesses

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CONTENT/PROCESS

Strengths: The program contains real-world activities and problem-solving opportunities throughout. Practice is provided for multi-step problems (as assessed on CATS). Students are given opportunites for unique discovery and deductive approaches to algebraic concepts. Several opportunites for students to organize, display, and interpret statistical models of bivariate data are embedded in the text.

Weaknesses: There is limited development of computational skills. "There are no boxed-off definitions,'worked out' examples, or content summaries." (Teacher's Guide, Course 2, Part A, p. xv) No glossaries or appendices are provided as a student resource. Seldom are formulas explicitly presented for student use (e.g., no specific formulas are given for slope, arithmetic or geometric sequences/series). Some algebraic concepts are limited (e.g., connection between slope and parallel/perpendicular lines). Some concepts are dispersed over the full four-course sequence (e.g., right-triangle trigonometry is developed over courses 2, 3, and 4). It is assumed throughout the four-course series that content will be discovered through the problem sets (failure to solve some problems may result in loss of content). A student may not master all content from the presentation of the lesson in text. Student who are not reading on grade level may have difficulty with the text.

ASSESSMENT

Strengths: Data-driven problems are embedded throughout.

Weaknesses: Without focusing on traditional algebraic communication methods (eg. notation, formulas, vocabulary), students may not be able to communicate what they have learned effectively. Real-life problems are not identified according to discipline.

ORGANIZATION AND STRUCTURE

Strengths: Student edition is divided into two parts.

Weaknesses: Instructional sequencing appears random. According to the books' authors, "There are no boxed-off definitions,'worked out' examples, or content summaries." (Teacher's Guide, Course 2, Part A, p. xv)

No glossary or appendices available. The instructioinal approach is radically different from what parents and students expect; parents may have difficulty interpreting the text. Students not reading on grade level may have great difficulty discovering concepts from the problem sets.

STUDENT EXPERIENCES

Strengths: Students are expected to learn the concepts by doing mathematics. Data and multi-step problem solving are emphasized throughout the text. There is a strong emphasis on cooperative learning.

Weaknesses: Students may have difficulty generalizing instructional objectives beyond the types of tasks presented in the material. Computational skills are de-emphasized throughout the text. Clear instructional objectives are listed in the teacher edition but not in the student edition.

Contemporary Mathematics in Context: A Unified Approach, Course 2, Part A & B

Publisher: Glencoe/ McGraw-Hill

TECHNOLOGY
Strength: The program makes frequent use of graphing calculators as a learning tool.
Weaknesses: The use of computers and data-collection probes is limited. Technology used in learning is limited to downloadable software for the graphing calculators.

RESOURCE MATERIALS
Strengths: A manual for implementing this program is available.
Weaknesses: Resources for adapting instruction for multiple intelligences, special needs students, and varying learning styles were not evident.

If this material is available in digital format, KDE strongly recommends that it be considered if there are students in the school who have a need for this type of material. **Is Not Available in digital format**

Recommended by reviewers to State Textbook Commission as a basal textbook or program.

OTHER COMMENTS: The progression from introduction of topics to mastery of topics extends over multiple courses. In order to cover KY's Core Content using this program, a school would need to implement the entire four-course series. Transfer students would have difficulty transitioning between this program and a more traditional math sequence (algebra and geometry).

PUBLISHER'S EXPLANATION OF REVIEWERS' COMMENTS
(By action of the State Textbook Commission, publishers are being provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the written evaluation.)
The Contemporary Mathematics in Context series was developed by funding from the National Science Foundation (NSF). It has received an exemplary citation by the U. S. Department of Education Expert Panel on Mathematics and Science.
The series covers the same content as a regular algebra1-geometry-algebra 2-precalculus sequence by integrating algebra, geometry, data analysis, probability, and statistics across all four years. Math content is developed using investigations to help students build new knowledge on previously learned content.
Each course is organized into two parts. Teachers using both parts in one year are providing the normal coverage of math content that is the intended design of the program and one that is suitable for most students. Teachers have the option of covering only one part in a year to provide a slower paced program or they can cover three parts in one year for an accelerated pace.

STANDARDS FOR MATHEMATICS EVALUATION INSTRUMENT

Content/Process

1. **Material is comprehensive and includes content emphasized in Kentucky's Learning Goals and Academic Expectations and supported by the Core Content for Assessment, Program of Studies, and relevant National Standards.**

Rating: Weak
Comments: Course 1: Development of computational skills is weak.

2. Content appears to be free from factual errors.
Rating: Weak
Comments: Course 1: Development of computational skills is weak.

3. Content makes connections to other content areas across the curriculum.
Rating: Weak
Comments: Course 1: Development of computational skills is weak.

4. Concepts and application of skills to real-life situations are introduced when appropriate.
Rating: Weak
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6. Material is flexible and accommodates various learning styles, interest/ability levels, and intelligences, including adaptations and accommodations for students with special needs.
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7. Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.
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8. Content reflects research-based practices (e.g., hands-on activities, technology, problem-solving situations).
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9. Concepts are explored in depth and reinforced throughout.
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Assessment

1. **Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**
Rating: Strong
Comments:

2. **Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.**
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Organization and Structure

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Comments:

2. **Language is clear and concise with correct grammar and sentence structure.**

Rating: Weak
Comments:

3. **Vocabulary and key terms are clearly defined and easily accessible within each lesson.**

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Comments:

6. Legible type, length of lines, spacing, page layout, and width of margins contribute to overall appearance and use.
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Comments:

2. Both group and individual activities are included.
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Comments:

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Weaknesses: There is limited development of computational skills. "There are no boxed-off definitions,'worked out' examples, or content summaries." (Teacher's Guide, Course 2, Part A, p. xv) No glossaries or appendices are provided as a student resource. Seldom are formulas explicitly presented for student use (e.g., no specific formulas are given for slope, arithmetic or geometric sequences/series). Some algebraic concepts are limited (e.g., connection between slope and parallel/perpendicular lines). Some concepts are dispersed over the full four-course sequence (e.g., right-triangle trigonometry is developed over courses 2, 3, and 4). It is assumed throughout the four-course series that content will be discovered through the problem sets (failure to solve some problems may result in loss of content). A student may not master all content from the presentation of the lesson in text. Students who are not reading on grade level may have difficulty with the text.

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Comments:

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Rating: Weak

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Rating: Strong

Comments:

4. **Materials and activities encourage students to explore and investigate mathematical ideas through various problem-solving techniques.**

Rating: Strong
Comments:

5. **Materials and activities encourage students to read, write, and discuss mathematics.**

Rating: Strong
Comments:

6. **Materials and activities ask students to reflect upon, clarify, justify, and generalize their mathematical ideas.**

Rating: Strong
Comments:

Technology

1. **In order for students to focus on decision-making, reflection, reasoning, and problem solving, instructional activities incorporate the use of technology (e.g. calculators, probes, computers) and include instructions on how to use the technology tools.**

Rating: Adequate
Comments:

2. **Various forms of media are included (e.g., CDs, videos, computer software).**

Rating: Adequate
Comments:

3. **Student materials are available online.**

Rating: Adequate
Comments:

Resource Materials

1. **Teacher materials coordinate easily with student materials (e.g., additional resources included at point of need, student pages shown, manipulatives appropriate for indicated lesson, instructional technology indicated).**

Rating: Adequate
Comments:

2. Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.
Rating: Adequate
Comments:

3. Extension activities including adaptations and accommodations for students with special needs.
Rating: Adequate
Comments:

4. Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections within mathematics, and references (e.g., solutions manuals, study guides).
Rating: Adequate
Comments:

5. Suggestions are made for integration of themes and/or interdisciplinary instruction.
Rating: Adequate
Comments:

6. Suggestions are made for family and community involvement and school/home communication.
Rating: Adequate
Comments:

7. The included media are durable, easy to use, and have technical merit.
Rating: Adequate
Comments:

8. Teacher resources are available online.
Rating: Adequate
Comments:

Contemporary Mathematics in Context: A Unified Approach, Course 3, Part A & B

Publisher: Glencoe/ McGraw-Hill

Evaluator Name(s): Durham, Lori Kettler, Michael Durham, Keith

Content Level: Integrated Math

Overall Strengths and/or Weaknesses

Disclaimer: Comments on the strengths and/or weaknesses of each book or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions. They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/Instructional Materials Review team completed each evaluation form during the week of July 8-12, 2002. In order to maintain the integrity of the review team's comments, editing was limited to spelling and punctuation.

CONTENT/PROCESS

Strengths: The program contains real-world activities and problem-solving opportunities throughout. Practice is provided for multi-step problems (as assessed on CATS). Students are given opportunites for unique discovery and deductive approaches to algebraic concepts. Several opportunites for students to organize, display, and interpret statistical models of bivariate data are embedded in the text.

Weaknesses: There is limited development of computational skills. "There are no boxed-off definitions,'worked out' examples, or content summaries." (Teacher's Guide, Course 2, Part A, p. xv) No glossaries or appendices are provided as a student resource. Seldom are formulas explicitly presented for student use (e.g., no specific formulas are given for slope, arithmetic or geometric sequences/series). Some algebraic concepts are limited (e.g., connection between slope and parallel/perpendicular lines). Some concepts are dispersed over the full four-course sequence (e.g., right-triangle trigonometry is developed over courses 2, 3, and 4). It is assumed throughout the four-course series that content will be discovered through the problem sets (failure to solve some problems may result in loss of content). A student may not master all content from the presentation of the lesson in text. Student who are not reading on grade level may have difficulty with the text.

ASSESSMENT

Strengths: Data-driven problems are embedded throughout.

Weaknesses: Without focusing on traditional algebraic communication methods (eg. notation, formulas, vocabulary), students may not be able to communicate what they have learned effectively. Real-life problems are not identified according to discipline.

ORGANIZATION AND STRUCTURE

Strengths: Student edition is divided into two parts.

Weaknesses: Instructional sequencing appears random. According to the books' authors, "There are no boxed-off definitions,'worked out' examples, or content summaries." (Teacher's Guide, Course 2, Part A, p. xv)

No glossary or appendices available. The instructioinal approach is radically different from what parents and students expect; parents may have difficulty interpreting the text. Students not reading on grade level may have great difficulty discovering concepts from the problem sets.

STUDENT EXPERIENCES

Strengths: Students are expected to learn the concepts by doing mathematics. Data and multi-step problem solving are emphasized throughout the text. There is a strong emphasis on cooperative learning.

Weaknesses: Students may have difficulty generalizing instructional objectives beyond the types of tasks presented in the material. Computational skills are de-emphasized throughout the text. Clear instructional objectives are listed in the teacher edition but not in the student edition.

Contemporary Mathematics in Context: A Unified Approach, Course 3, Part A & B

Publisher: Glencoe/ McGraw-Hill

TECHNOLOGY
Strength: The program makes frequent use of graphing calculators as a learning tool.
Weaknesses: The use of computers and data-collection probes is limited. Technology used in learning is limited to downloadable software for the graphing calculators.

RESOURCE MATERIALS
Strengths: A manual for implementing this program is available.
Weaknesses: Resources for adapting instruction for multiple intelligences, special needs students, and varying learning styles were not evident.

If this material is available in digital format, KDE strongly recommends that it be considered if there are students in the school who have a need for this type of material. **Is Not Available in digital format**

Recommended by reviewers to State Textbook Commission as a basal textbook or program.

OTHER COMMENTS: The progression from introduction of topics to mastery of topics extends over multiple courses. In order to cover KY's Core Content using this program, a school would need to implement the entire four-course series. Transfer students would have difficulty transitioning between this program and a more traditional math sequence (algebra and geometry).

PUBLISHER'S EXPLANATION OF REVIEWERS' COMMENTS
(By action of the State Textbook Commission, publishers are being provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the written evaluation.)
The Contemporary Mathematics in Context series was developed by funding from the National Science Foundation (NSF). It has received an exemplary citation by the U. S. Department of Education Expert Panel on Mathematics and Science.
The series covers the same content as a regular algebra 1-geometry-algebra 2-precalculus sequence by integrating algebra, geometry, data analysis, probability, and statistics across all four years. Math content is developed using investigations to help students build new knowledge on previously learned content.
Each course is organized into two parts. Teachers using both parts in one year are providing the normal coverage of math content that is the intended design of the program and one that is suitable for most students. Teachers have the option of covering only one part in a year to provide a slower-paced program or they can cover three parts in one year for an accelerated pace.

STANDARDS FOR MATHEMATICS EVALUATION INSTRUMENT

Content/Process

1. **Material is comprehensive and includes content emphasized in Kentucky's Learning Goals and Academic Expectations and supported by the Core Content for Assessment, Program of Studies, and relevant National Standards.**

Rating: Weak
Comments: Course 1: Development of computational skills is weak.

2. Content appears to be free from factual errors.
Rating: Weak
Comments: Course 1: Development of computational skills is weak.

3. Content makes connections to other content areas across the curriculum.
Rating: Weak
Comments: Course 1: Development of computational skills is weak.

4. Concepts and application of skills to real-life situations are introduced when appropriate.
Rating: Weak
Comments: Course 1: Development of computational skills is weak.

5. Content appears to be free of social, ethnic, racial, religious, gender, and geographic bias.
Rating: Weak
Comments: Course 1: Development of computational skills is weak.

6. Material is flexible and accommodates various learning styles, interest/ability levels, and intelligences, including adaptations and accommodations for students with special needs.
Rating: Weak
Comments: Course 1: Development of computational skills is weak.

7. Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.
Rating: Weak
Comments: Course 1: Development of computational skills is weak.

8. Content reflects research-based practices (e.g., hands-on activities, technology, problem-solving situations).
Rating: Weak
Comments: Course 1: Development of computational skills is weak.

9. Concepts are explored in depth and reinforced throughout.
Rating: Weak
Comments: Course 1: Development of computational skills is weak.

Assessment

1. **Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**
Rating: Strong
Comments:

2. **Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.**
Rating: Strong
Comments:

3. **Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.**
Rating: Strong
Comments:

4. **A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**
Rating: Strong
Comments:

5. **Assessment activities provide opportunities for student integration of technology in the assessment process.**
Rating: Strong
Comments:

6. **Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**
Rating: Strong
Comments:

7. **Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**
Rating: Strong
Comments:

8. **Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.**
Rating: Strong

Comments:

9. **Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.**

Rating: Strong
Comments:

10. **A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**

Rating: Strong
Comments:

11. **Assessment activities provide opportunities for student integration of technology in the assessment process.**

Rating: Strong
Comments:

Organization and Structure

1. **Organization is logical and allows for spiraling of content.**

Rating: Weak
Comments:

2. **Language is clear and concise with correct grammar and sentence structure.**

Rating: Weak
Comments:

3. **Vocabulary and key terms are clearly defined and easily accessible within each lesson.**

Rating: Weak
Comments:

4. **Visual illustrations (e.g., graphs, charts, models) and examples are clearly presented and content-related.**

Rating: Weak
Comments:

5. **Illustrations and language reflect diversity (e.g., racial, ethnic, cultural, age, gender, disabilities).**

Rating: Weak

Comments:

6. Legible type, length of lines, spacing, page layout, and width of margins contribute to overall appearance and use.
Rating: Weak
Comments:

7. Student materials seem durable and conducive to daily student use (e.g., size, weight).
Rating: Weak
Comments:

8. Textbook includes appropriate and sufficient glossary, index, and appendices.
Rating: Weak
Comments:

9. Materials are organized into units of study (or similar structures) with daily lessons that include worthwhile, real-world tasks.
Rating: Weak
Comments:

10. Materials can be easily understood by students and parents.
Rating: Weak
Comments:

Student Experiences

1. The program emphasizes students *doing* mathematics rather than *memorizing* mathematics.
Rating: Strong
Comments:

2. Both group and individual activities are included.
Rating: Strong
Comments:

3. Materials and activities provide authentic applications that allow students to make meaningful connections across the curriculum, to real-world situations, and to interrelated mathematical concepts.
Rating: Strong

Comments:

4. **Materials and activities encourage students to explore and investigate mathematical ideas through various problem-solving techniques.**

Rating: Strong
Comments:

5. **Materials and activities encourage students to read, write, and discuss mathematics.**

Rating: Strong
Comments:

6. **Materials and activities ask students to reflect upon, clarify, justify, and generalize their mathematical ideas.**

Rating: Strong
Comments:

Technology

1. **In order for students to focus on decision-making, reflection, reasoning, and problem solving, instructional activities incorporate the use of technology (e.g. calculators, probes, computers) and include instructions on how to use the technology tools.**

Rating: Adequate
Comments:

2. **Various forms of media are included (e.g., CDs, videos, computer software).**

Rating: Adequate
Comments:

3. **Student materials are available online.**

Rating: Adequate
Comments:

Resource Materials

1. **Teacher materials coordinate easily with student materials (e.g., additional resources included at point of need, student pages shown, manipulatives appropriate for indicated lesson, instructional technology indicated).**

Rating: Adequate
Comments:

2. Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.
Rating: Adequate
Comments:

3. Extension activities including adaptations and accommodations for students with special needs.
Rating: Adequate
Comments:

4. Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections within mathematics, and references (e.g., solutions manuals, study guides).
Rating: Adequate
Comments:

5. Suggestions are made for integration of themes and/or interdisciplinary instruction.
Rating: Adequate
Comments:

6. Suggestions are made for family and community involvement and school/home communication.
Rating: Adequate
Comments:

7. The included media are durable, easy to use, and have technical merit.
Rating: Adequate
Comments:

8. Teacher resources are available online.
Rating: Adequate
Comments:

Contemporary Mathematics in Context: A Unified Approach, Course 4, Part A & B

Publisher: Glencoe/ McGraw-Hill

Evaluator Name(s): Durham, Lori Kettler, Michael Durham, Keith

Content Level: Integrated Math

Overall Strengths and/or Weaknesses

Disclaimer: Comments on the strengths and/or weaknesses of each book or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions. They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/Instructional Materials Review team completed each evaluation form during the week of July 8-12, 2002. In order to maintain the integrity of the review team's comments, editing was limited to spelling and punctuation.

CONTENT/PROCESS

Strengths: The program contains real-world activities and problem-solving opportunities throughout. Practice is provided for multi-step problems (as assessed on CATS). Students are given opportunites for unique discovery and deductive approaches to algebraic concepts. Several opportunites for students to organize, display, and interpret statistical models of bivariate data are embedded in the text.

Weaknesses: There is limited development of computational skills. "There are no boxed-off definitions,'worked out' examples, or content summaries." (Teacher's Guide, Course 2, Part A, p. xv) No glossaries or appendices are provided as a student resource. Seldom are formulas explicitly presented for student use (e.g., no specific formulas are given for slope, arithmetic or geometric sequences/series). Some algebraic concepts are limited (e.g., connection between slope and parallel/perpendicular lines). Some concepts are dispersed over the full four-course sequence (e.g., right-triangle trigonometry is developed over courses 2, 3, and 4). It is assumed throughout the four-course series that content will be discovered through the problem sets (failure to solve some problems may result in loss of content). A student may not master all content from the presentation of the lesson in text. Student who are not reading on grade level may have difficulty with the text.

ASSESSMENT

Strengths: Data-driven problems are embedded throughout.

Weaknesses: Without focusing on traditional algebraic communication methods (eg. notation, formulas, vocabulary), students may not be able to communicate what they have learned effectively. Real-life problems are not identified according to discipline.

ORGANIZATION AND STRUCTURE

Strengths: Student edition is divided into two parts.

Weaknesses: Instructional sequencing appears random. According to the books' authors, "There are no boxed-off definitions,'worked out' examples, or content summaries." (Teacher's Guide, Course 2, Part A, p. xv)

No glossary or appendices available. The instructioinal approach is radically different from what parents and students expect; parents may have difficulty interpreting the text. Students not reading on grade level may have great difficulty discovering concepts from the problem sets.

STUDENT EXPERIENCES

Strengths: Students are expected to learn the concepts by doing mathematics. Data and multi-step problem solving are emphasized throughout the text. There is a strong emphasis on cooperative learning.

Weaknesses: Students may have difficulty generalizing instructional objectives beyond the types of tasks presented in the material. Computational skills are de-emphasized throughout the text. Clear instructional objectives are listed in the teacher edition but not in the student edition.

Contemporary Mathematics in Context: A Unified Approach, Course 4, Part A & B

Publisher: Glencoe/ McGraw-Hill

TECHNOLOGY
Strength: The program makes frequent use of graphing calculators as a learning tool.
Weaknesses: The use of computers and data-collection probes is limited. Technology used in learning is limited to downloadable software for the graphing calculators.

RESOURCE MATERIALS
Strengths: A manual for implementing this program is available.
Weaknesses: Resources for adapting instruction for multiple intelligences, special needs students, and varying learning styles were not evident.

If this material is available in digital format, KDE strongly recommends that it be considered if there are students in the school who have a need for this type of material. **Is Not Available in digital format**

Recommended by reviewers to State Textbook Commission as a basal textbook or program.

OTHER COMMENTS: The progression from introduction of topics to mastery of topics extends over multiple courses. In order to cover KY's Core Content using this program, a school would need to implement the entire four-course series. Transfer students would have difficulty transitioning between this program and a more traditional math sequence (algebra and geometry).

PUBLISHER'S EXPLANATION OF REVIEWERS' COMMENTS
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Each course is organized into two parts. Teachers using both parts in one year are providing the normal coverage of math content that is the intended design of the program and one that is suitable for most students. Teachers have the option of covering only one part in a year to provide a slower paced program or they can cover three parts in one year for an accelerated pace.

STANDARDS FOR MATHEMATICS EVALUATION INSTRUMENT

Content/Process

1. **Material is comprehensive and includes content emphasized in Kentucky's Learning Goals and Academic Expectations and supported by the Core Content for Assessment, Program of Studies, and relevant National Standards.**

Rating: Weak
Comments: Course 1: Development of computational skills is weak.

2. Content appears to be free from factual errors.
Rating: Weak
Comments: Course 1: Development of computational skills is weak.

3. Content makes connections to other content areas across the curriculum.
Rating: Weak
Comments: Course 1: Development of computational skills is weak.

4. Concepts and application of skills to real-life situations are introduced when appropriate.
Rating: Weak
Comments: Course 1: Development of computational skills is weak.

5. Content appears to be free of social, ethnic, racial, religious, gender, and geographic bias.
Rating: Weak
Comments: Course 1: Development of computational skills is weak.

6. Material is flexible and accommodates various learning styles, interest/ability levels, and intelligences, including adaptations and accommodations for students with special needs.
Rating: Weak
Comments: Course 1: Development of computational skills is weak.

7. Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.
Rating: Weak
Comments: Course 1: Development of computational skills is weak.

8. Content reflects research-based practices (e.g., hands-on activities, technology, problem-solving situations).
Rating: Weak
Comments: Course 1: Development of computational skills is weak.

9. Concepts are explored in depth and reinforced throughout.
Rating: Weak
Comments: Course 1: Development of computational skills is weak.

Assessment

1. **Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**
Rating: Strong
Comments:

2. **Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.**
Rating: Strong
Comments:

3. **Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.**
Rating: Strong
Comments:

4. **A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**
Rating: Strong
Comments:

5. **Assessment activities provide opportunities for student integration of technology in the assessment process.**
Rating: Strong
Comments:

6. **Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**
Rating: Strong
Comments:

7. **Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**
Rating: Strong
Comments:

8. **Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.**
Rating: Strong

Comments:

9. **Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.**

Rating: Strong
Comments:

10. **A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**

Rating: Strong
Comments:

11. **Assessment activities provide opportunities for student integration of technology in the assessment process.**

Rating: Strong
Comments:

Organization and Structure

1. **Organization is logical and allows for spiraling of content.**

Rating: Weak
Comments:

2. **Language is clear and concise with correct grammar and sentence structure.**

Rating: Weak
Comments:

3. **Vocabulary and key terms are clearly defined and easily accessible within each lesson.**

Rating: Weak
Comments:

4. **Visual illustrations (e.g., graphs, charts, models) and examples are clearly presented and content-related.**

Rating: Weak
Comments:

5. **Illustrations and language reflect diversity (e.g., racial, ethnic, cultural, age, gender, disabilities).**

Rating: Weak

Comments:

6. Legible type, length of lines, spacing, page layout, and width of margins contribute to overall appearance and use.
Rating: Weak
Comments:

7. Student materials seem durable and conducive to daily student use (e.g., size, weight).
Rating: Weak
Comments:

8. Textbook includes appropriate and sufficient glossary, index, and appendices.
Rating: Weak
Comments:

9. Materials are organized into units of study (or similar structures) with daily lessons that include worthwhile, real-world tasks.
Rating: Weak
Comments:

10. Materials can be easily understood by students and parents.
Rating: Weak
Comments:

Student Experiences

1. The program emphasizes students *doing* mathematics rather than *memorizing* mathematics.
Rating: Strong
Comments:

2. Both group and individual activities are included.
Rating: Strong
Comments:

3. Materials and activities provide authentic applications that allow students to make meaningful connections across the curriculum, to real-world situations, and to interrelated mathematical concepts.
Rating: Strong

Comments:

4. **Materials and activities encourage students to explore and investigate mathematical ideas through various problem-solving techniques.**

Rating: Strong
Comments:

5. **Materials and activities encourage students to read, write, and discuss mathematics.**

Rating: Strong
Comments:

6. **Materials and activities ask students to reflect upon, clarify, justify, and generalize their mathematical ideas.**

Rating: Strong
Comments:

Technology

1. **In order for students to focus on decision-making, reflection, reasoning, and problem solving, instructional activities incorporate the use of technology (e.g. calculators, probes, computers) and include instructions on how to use the technology tools.**

Rating: Adequate
Comments:

2. **Various forms of media are included (e.g., CDs, videos, computer software).**

Rating: Adequate
Comments:

3. **Student materials are available online.**

Rating: Adequate
Comments:

Resource Materials

1. **Teacher materials coordinate easily with student materials (e.g., additional resources included at point of need, student pages shown, manipulatives appropriate for indicated lesson, instructional technology indicated).**

Rating: Adequate
Comments:

2. Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.
Rating: Adequate
Comments:

3. Extension activities including adaptations and accommodations for students with special needs.
Rating: Adequate
Comments:

4. Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections within mathematics, and references (e.g., solutions manuals, study guides).
Rating: Adequate
Comments:

5. Suggestions are made for integration of themes and/or interdisciplinary instruction.
Rating: Adequate
Comments:

6. Suggestions are made for family and community involvement and school/home communication.
Rating: Adequate
Comments:

7. The included media are durable, easy to use, and have technical merit.
Rating: Adequate
Comments:

8. Teacher resources are available online.
Rating: Adequate
Comments:

MathScape: Seeing & Thinking Mathematically, Grade 6

Publisher: Glencoe/McGraw Hill

Evaluator Name(s): McGatha, Maggie Ney, Tricia

Content Level:

Overall Strengths and/or Weaknesses

Disclaimer: Comments on the strengths and/or weaknesses of each book or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions. They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/Instructional Materials Review team completed each evaluation form during the week of July 8-12, 2002. In order to maintain the integrity of the review team's comments, editing was limited to spelling and punctuation.

CONTENT/PROCESS

Strengths: Content reflects research-based practices with concepts and applications of skills to real-life situations.

Weaknesses: Some of the Kentucky Program of Studies and Core Content for grade 6 is not adequately covered. It is covered in more detail in later grades. (For example, prime numbers, Greatest Common Factor, Least Common Multiple, weight/mass, and classifying rays, planes, and segments.)

ASSESSMENT

Strengths: A variety of assessment activities that provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.

Weaknesses: None observed.

ORGANIZATION AND STRUCTURE

Strengths: Organization is logical with clear and concise language. The Math User's Handbook:Hot Words, Hot Topics is a great resource.

Weaknesses: None observed

STUDENT EXPERIENCES

Strengths: The overall program emphasizes a variety of experiences in which students are actively engaged in making meaningful connections across the curriculum, to real-world situations, and to interrelated mathematical concepts.

Weaknesses: None observed.

TECHNOLOGY

Strength: The integration of technology is not a strength of this program.

Weaknesses: Technology application suggestions are provided but are not an integral part of the mathematical investigations.

RESOURCE MATERIALS

Strengths: Numerous suggestions for integration of themes and interdisciplinary instruction are included. Resources provide extensive background information, student work, and advice for lesson implementation.

Weaknesses: Only one form of media included - a CD-ROM for test practice. Specific adaptations for special needs students were not evident.

If this material is available in digital format, KDE strongly recommends that it be considered if there are students in the school who have a need for this type of material. **Is Not Available in digital format**

MathScape: Seeing & Thinking Mathematically, Grade 6

Publisher: Glencoe/McGraw Hill

Recommended by reviewers to State Textbook Commission as a basal textbook or program.

OTHER COMMENTS:

PUBLISHER'S EXPLANATION OF REVIEWERS' COMMENTS

(By action of the State Textbook Commission, publishers are being provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the written evaluation.)

STANDARDS FOR MATHEMATICS EVALUATION INSTRUMENT

Content/Process

1. **Material is comprehensive and includes content emphasized in Kentucky's Learning Goals and Academic Expectations and supported by the Core Content for Assessment, Program of Studies, and relevant National Standards.**

Rating: Adequate

Comments: Some of the Kentucky Program of Studies and Core Content is not covered. It is probably covered in later grades. (For example, prime numbers, Greatest Common Factor, Least Common Multiple, weight/mass, and classifying rays, planes, and segments.)

2. **Content appears to be free from factual errors.**

Rating: Adequate

Comments: Some of the Kentucky Program of Studies and Core Content is not covered. It is probably covered in later grades. (For example, prime numbers, Greatest Common Factor, Least Common Multiple, weight/mass, and classifying rays, planes, and segments.)

3. **Content makes connections to other content areas across the curriculum.**

Rating: Adequate

Comments: Some of the Kentucky Program of Studies and Core Content is not covered. It is probably covered in later grades. (For example, prime numbers, Greatest Common Factor, Least Common Multiple, weight/mass, and classifying rays, planes, and segments.)

4. **Concepts and application of skills to real-life situations are introduced when appropriate.**

Rating: Adequate

Comments: Some of the Kentucky Program of Studies and Core Content is not covered. It is probably covered in later grades. (For example, prime numbers, Greatest Common Factor, Least Common Multiple, weight/mass, and classifying rays, planes, and segments.)

5. Content appears to be free of social, ethnic, racial, religious, gender, and geographic bias.
Rating: Adequate
Comments: Some of the Kentucky Program of Studies and Core Content is not covered. It is probably covered in later grades. (For example, prime numbers, Greatest Common Factor, Least Common Multiple, weight/mass, and classifying rays, planes, and segments.)

6. Material is flexible and accommodates various learning styles, interest/ability levels, and intelligences, including adaptations and accommodations for students with special needs.
Rating: Adequate
Comments: Some of the Kentucky Program of Studies and Core Content is not covered. It is probably covered in later grades. (For example, prime numbers, Greatest Common Factor, Least Common Multiple, weight/mass, and classifying rays, planes, and segments.)

7. Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.
Rating: Adequate
Comments: Some of the Kentucky Program of Studies and Core Content is not covered. It is probably covered in later grades. (For example, prime numbers, Greatest Common Factor, Least Common Multiple, weight/mass, and classifying rays, planes, and segments.)

8. Content reflects research-based practices (e.g., hands-on activities, technology, problem-solving situations).
Rating: Adequate
Comments: Some of the Kentucky Program of Studies and Core Content is not covered. It is probably covered in later grades. (For example, prime numbers, Greatest Common Factor, Least Common Multiple, weight/mass, and classifying rays, planes, and segments.)

9. Concepts are explored in depth and reinforced throughout.
Rating: Adequate
Comments: Some of the Kentucky Program of Studies and Core Content is not covered. It is probably covered in later grades. (For example, prime numbers, Greatest Common Factor, Least Common Multiple, weight/mass, and classifying rays, planes, and segments.)

Assessment

1. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.
Rating: Strong
Comments:

2. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.
Rating: Strong
Comments:

3. Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.
Rating: Strong
Comments:

4. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.
Rating: Strong
Comments:

5. Assessment activities provide opportunities for student integration of technology in the assessment process.
Rating: Strong
Comments:

6. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.
Rating: Strong
Comments:

7. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.
Rating: Strong
Comments:

8. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.
Rating: Strong
Comments:

9. Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.
Rating: Strong

Comments:

10. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.
Rating: Strong
Comments:

11. Assessment activities provide opportunities for student integration of technology in the assessment process.
Rating: Strong
Comments:

Organization and Structure

1. Organization is logical and allows for spiraling of content.
Rating: Strong
Comments:

2. Language is clear and concise with correct grammar and sentence structure.
Rating: Strong
Comments:

3. Vocabulary and key terms are clearly defined and easily accessible within each lesson.
Rating: Strong
Comments:

4. Visual illustrations (e.g., graphs, charts, models) and examples are clearly presented and content-related.
Rating: Strong
Comments:

5. Illustrations and language reflect diversity (e.g., racial, ethnic, cultural, age, gender, disabilities).
Rating: Strong
Comments:

6. Legible type, length of lines, spacing, page layout, and width of margins contribute to overall appearance and use.
Rating: Strong
Comments:

7. Student materials seem durable and conducive to daily student use (e.g., size, weight).
Rating: Strong
Comments:

8. Textbook includes appropriate and sufficient glossary, index, and appendices.
Rating: Strong
Comments:

9. Materials are organized into units of study (or similar structures) with daily lessons that include worthwhile, real-world tasks.
Rating: Strong
Comments:

10. Materials can be easily understood by students and parents.
Rating: Strong
Comments:

Student Experiences

1. The program emphasizes students *doing* mathematics rather than *memorizing* mathematics.
Rating: Strong
Comments:

2. Both group and individual activities are included.
Rating: Strong
Comments:

3. Materials and activities provide authentic applications that allow students to make meaningful connections across the curriculum, to real-world situations, and to interrelated mathematical concepts.
Rating: Strong
Comments:

4. Materials and activities encourage students to explore and investigate mathematical ideas through various problem-solving techniques.
Rating: Strong

Comments:

5. Materials and activities encourage students to read, write, and discuss mathematics.
Rating: Strong
Comments:

6. Materials and activities ask students to reflect upon, clarify, justify, and generalize their mathematical ideas.
Rating: Strong
Comments:

Technology

1. In order for students to focus on decision-making, reflection, reasoning, and problem solving, instructional activities incorporate the use of technology (e.g. calculators, probes, computers) and include instructions on how to use the technology tools.
Rating: Adequate
Comments:

2. Various forms of media are included (e.g., CDs, videos, computer software).
Rating: Adequate
Comments:

3. Student materials are available online.
Rating: Adequate
Comments:

Resource Materials

1. Teacher materials coordinate easily with student materials (e.g., additional resources included at point of need, student pages shown, manipulatives appropriate for indicated lesson, instructional technology indicated).
Rating: Strong
Comments:

2. Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.
Rating: Strong
Comments:

3. Extension activities including adaptations and accommodations for students with special needs.
Rating: Strong
Comments:

4. Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections within mathematics, and references (e.g., solutions manuals, study guides).
Rating: Strong
Comments:

5. Suggestions are made for integration of themes and/or interdisciplinary instruction.
Rating: Strong
Comments:

6. Suggestions are made for family and community involvement and school/home communication.
Rating: Strong
Comments:

7. The included media are durable, easy to use, and have technical merit.
Rating: Strong
Comments:

8. Teacher resources are available online.
Rating: Strong
Comments:

MathScape: Seeing & Thinking Mathematically, Grade 7

Publisher: Glencoe/McGraw Hill

Evaluator Name(s): McGatha, Maggie Ney, Tricia

Content Level:

Overall Strengths and/or Weaknesses

Disclaimer: Comments on the strengths and/or weaknesses of each book or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions. They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/Instructional Materials Review team completed each evaluation form during the week of July 8-12, 2002. In order to maintain the integrity of the review team's comments, editing was limited to spelling and punctuation.

CONTENT/PROCESS
Strengths: Content reflects research-based practices with concepts and applications of skills to real-life situations.
Weaknesses: Some of the Kentucky Program of Studies and Core Content for grade 7 is not adequately covered. It is covered in more detail in either grade 6 or 8. (For example, tree diagrams, double bar graph, pi, adjacent angles, vertical angles, commutative property)

ASSESSMENT
Strengths: A variety of assessment activities that provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.
Weaknesses: None observed

ORGANIZATION AND STRUCTURE
Strengths: Organization is logical with clear and concise language. The Math User's Handbook, Hot Words, Hot Topics is a great resource.
Weaknesses: None observed

STUDENT EXPERIENCES
Strengths: The overall program emphasizes a variety of experiences in which students are actively engaged in making meaningful connections across the curriculum, to real-world situations, and to interrelated mathematical concepts.
Weaknesses: None observed

TECHNOLOGY
Strength: The integration of technology is not a strength of this program.
Weaknesses: Technology application suggestions are provided but are not an integral part of the mathematical investigations.

RESOURCE MATERIALS
Strengths: Numerous suggestions for integration of themes and interdisciplinary instruction are included. Resources provide extensive background information, student work, and advice for lesson implementation.
Weaknesses: Only one form of media included - a CD-ROM for test practice. Specific adaptations for special needs students were not evident.

If this material is available in digital format, KDE strongly recommends that it be considered if there are students in the school who have a need for this type of material. **Is Not Available in digital format**

MathScape: Seeing & Thinking Mathematically, Grade 7

Publisher: Glencoe/McGraw Hill

Recommended by reviewers to State Textbook Commission as a basal textbook or program.

OTHER COMMENTS:

PUBLISHER'S EXPLANATION OF REVIEWERS' COMMENTS

(By action of the State Textbook Commission, publishers are being provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the written evaluation.)

STANDARDS FOR MATHEMATICS EVALUATION INSTRUMENT

Content/Process

1. **Material is comprehensive and includes content emphasized in Kentucky's Learning Goals and Academic Expectations and supported by the Core Content for Assessment, Program of Studies, and relevant National Standards.**

Rating: Adequate
Comments:

2. **Content appears to be free from factual errors.**

Rating: Adequate
Comments:

3. **Content makes connections to other content areas across the curriculum.**

Rating: Adequate
Comments:

4. **Concepts and application of skills to real-life situations are introduced when appropriate.**

Rating: Adequate
Comments:

5. **Content appears to be free of social, ethnic, racial, religious, gender, and geographic bias.**

Rating: Adequate
Comments:

6. **Material is flexible and accommodates various learning styles, interest/ability levels, and intelligences, including adaptations and accommodations for students with special needs.**

Rating: Adequate
Comments:

7. Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.
Rating: Adequate
Comments:

8. Content reflects research-based practices (e.g., hands-on activities, technology, problem-solving situations).
Rating: Adequate
Comments:

9. Concepts are explored in depth and reinforced throughout.
Rating: Adequate
Comments:

Assessment

1. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.
Rating: Strong
Comments:

2. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.
Rating: Strong
Comments:

3. Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.
Rating: Strong
Comments:

4. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.
Rating: Strong
Comments:

5. Assessment activities provide opportunities for student integration of technology in the assessment process.
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Comments:

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Comments:

Organization and Structure

1. Organization is logical and allows for spiraling of content.
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Comments:

2. Language is clear and concise with correct grammar and sentence structure.

Rating: Strong
Comments:

3. Vocabulary and key terms are clearly defined and easily accessible within each lesson.
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Comments:

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Comments:

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Rating: Strong
Comments:

7. Student materials seem durable and conducive to daily student use (e.g., size, weight).
Rating: Strong
Comments:

8. Textbook includes appropriate and sufficient glossary, index, and appendices.
Rating: Strong
Comments:

9. Materials are organized into units of study (or similar structures) with daily lessons that include worthwhile, real-world tasks.
Rating: Strong
Comments:

10. Materials can be easily understood by students and parents.
Rating: Strong
Comments:

MathScape: Seeing & Thinking Mathematically, Grade 7

Publisher: Glencoe/McGraw Hill

Student Experiences

1. The program emphasizes students *doing* mathematics rather than *memorizing* mathematics.
Rating: Strong
Comments:

2. Both group and individual activities are included.
Rating: Strong
Comments:

3. Materials and activities provide authentic applications that allow students to make meaningful connections across the curriculum, to real-world situations, and to interrelated mathematical concepts.
Rating: Strong
Comments:

4. Materials and activities encourage students to explore and investigate mathematical ideas through various problem-solving techniques.
Rating: Strong
Comments:

5. Materials and activities encourage students to read, write, and discuss mathematics.
Rating: Strong
Comments:

6. Materials and activities ask students to reflect upon, clarify, justify, and generalize their mathematical ideas.
Rating: Strong
Comments:

Technology

1. In order for students to focus on decision-making, reflection, reasoning, and problem solving, instructional activities incorporate the use of technology (e.g. calculators, probes, computers) and include instructions on how to use the technology tools.
Rating: Adequate
Comments:

2. Various forms of media are included (e.g., CDs, videos, computer software).

Rating: Adequate
Comments:

3. Student materials are available online.
Rating: Adequate
Comments:

Resource Materials

1. Teacher materials coordinate easily with student materials (e.g., additional resources included at point of need, student pages shown, manipulatives appropriate for indicated lesson, instructional technology indicated).
Rating: Strong
Comments:

2. Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.
Rating: Strong
Comments:

3. Extension activities including adaptations and accommodations for students with special needs.
Rating: Strong
Comments:

4. Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections within mathematics, and references (e.g., solutions manuals, study guides).
Rating: Strong
Comments:

5. Suggestions are made for integration of themes and/or interdisciplinary instruction.
Rating: Strong
Comments:

6. Suggestions are made for family and community involvement and school/home communication.
Rating: Strong
Comments:

7. The included media are durable, easy to use, and have technical merit.

Rating: Strong
Comments:

8. Teacher resources are available online.
Rating: Strong
Comments:

MathScape: Seeing and Thinking Mathematically, grade 8

Publisher: Glencoe/McGraw Hill

Evaluator Name(s): McGatha, Maggie Ney, Tricia

Content Level:

Overall Strengths and/or Weaknesses

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CONTENT/PROCESS
Strengths: Content reflects research-based practices with concepts and applications of skills to real-life situations.
Weaknesses: Some of the Kentucky Program of Studies and Core Content for grade 8 is not adequately covered (box and whisker plots not addressed at all). It is covered in more detail in either grade 6 or 7. (For example, consumer applications, independent events.)

ASSESSMENT
Strengths: A variety of assessment activities that provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.
Weaknesses: None observed.

ORGANIZATION AND STRUCTURE
Strengths: Organization is logical with clear and concise language. The Math User's Handbook: Hot Words, Hot Topics is a great resource.
Weaknesses: None observed.

STUDENT EXPERIENCES
Strengths: The overall program emphasizes a variety of experiences in which students are actively engaged in making meaningful connections across the curriculum, to real-world situations, and to interrelated mathematical concepts.
Weaknesses: None observed.

TECHNOLOGY
Strength: The integration of technology is not a strength of this program.
Weaknesses: Technology application suggestions are provided but are not an integral part of the mathematical investigations.

RESOURCE MATERIALS
Strengths: Numerous suggestions for integration of themes and interdisciplinary instruction are included. Resources provide extensive background information, student work, and advice for lesson implementation.
Weaknesses: Only one form of media included - a CD-ROM for test practice. Specific adaptations for special needs students were not evident.

If this material is available in digital format, KDE strongly recommends that it be considered if there are students in the school who have a need for this type of material. **Is Not Available in digital format**

MathScape: Seeing and Thinking Mathematically, grade 8

Publisher: Glencoe/McGraw Hill

Recommended by reviewers to State Textbook Commission as a basal textbook or program.

OTHER COMMENTS:

PUBLISHER'S EXPLANATION OF REVIEWERS' COMMENTS

(By action of the State Textbook Commission, publishers are being provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the written evaluation.)

STANDARDS FOR MATHEMATICS EVALUATION INSTRUMENT

Content/Process

1. **Material is comprehensive and includes content emphasized in Kentucky's Learning Goals and Academic Expectations and supported by the Core Content for Assessment, Program of Studies, and relevant National Standards.**

Rating: Adequate
Comments:

2. **Content appears to be free from factual errors.**

Rating: Adequate
Comments:

3. **Content makes connections to other content areas across the curriculum.**

Rating: Adequate
Comments:

4. **Concepts and application of skills to real-life situations are introduced when appropriate.**

Rating: Adequate
Comments:

5. **Content appears to be free of social, ethnic, racial, religious, gender, and geographic bias.**

Rating: Adequate
Comments:

6. **Material is flexible and accommodates various learning styles, interest/ability levels, and intelligences, including adaptations and accommodations for students with special needs.**

Rating: Adequate
Comments:

7. Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.
Rating: Adequate
Comments:

8. Content reflects research-based practices (e.g., hands-on activities, technology, problem-solving situations).
Rating: Adequate
Comments:

9. Concepts are explored in depth and reinforced throughout.
Rating: Adequate
Comments:

Assessment

1. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.
Rating: Strong
Comments:

2. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.
Rating: Strong
Comments:

3. Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.
Rating: Strong
Comments:

4. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.
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Comments:

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Rating: Strong
Comments:

11. **Assessment activities provide opportunities for student integration of technology in the assessment process.**
Rating: Strong
Comments:

Organization and Structure

1. **Organization is logical and allows for spiraling of content.**
Rating: Strong
Comments:

2. **Language is clear and concise with correct grammar and sentence structure.**

Rating: Strong
Comments:

3. Vocabulary and key terms are clearly defined and easily accessible within each lesson.
Rating: Strong
Comments:

4. Visual illustrations (e.g., graphs, charts, models) and examples are clearly presented and content-related.
Rating: Strong
Comments:

5. Illustrations and language reflect diversity (e.g., racial, ethnic, cultural, age, gender, disabilities).
Rating: Strong
Comments:

6. Legible type, length of lines, spacing, page layout, and width of margins contribute to overall appearance and use.
Rating: Strong
Comments:

7. Student materials seem durable and conducive to daily student use (e.g., size, weight).
Rating: Strong
Comments:

8. Textbook includes appropriate and sufficient glossary, index, and appendices.
Rating: Strong
Comments:

9. Materials are organized into units of study (or similar structures) with daily lessons that include worthwhile, real-world tasks.
Rating: Strong
Comments:

10. Materials can be easily understood by students and parents.
Rating: Strong
Comments:

MathScape: Seeing and Thinking Mathematically, grade 8

Publisher: Glencoe/McGraw Hill

Student Experiences

1. The program emphasizes students *doing* mathematics rather than *memorizing* mathematics.
Rating: Strong
Comments:

2. Both group and individual activities are included.
Rating: Strong
Comments:

3. Materials and activities provide authentic applications that allow students to make meaningful connections across the curriculum, to real-world situations, and to interrelated mathematical concepts.
Rating: Strong
Comments:

4. Materials and activities encourage students to explore and investigate mathematical ideas through various problem-solving techniques.
Rating: Strong
Comments:

5. Materials and activities encourage students to read, write, and discuss mathematics.
Rating: Strong
Comments:

6. Materials and activities ask students to reflect upon, clarify, justify, and generalize their mathematical ideas.
Rating: Strong
Comments:

Technology

1. In order for students to focus on decision-making, reflection, reasoning, and problem solving, instructional activities incorporate the use of technology (e.g. calculators, probes, computers) and include instructions on how to use the technology tools.
Rating: Adequate
Comments:

2. Various forms of media are included (e.g., CDs, videos, computer software).

Rating: Adequate
Comments:

3. Student materials are available online.
Rating: Adequate
Comments:

Resource Materials

1. Teacher materials coordinate easily with student materials (e.g., additional resources included at point of need, student pages shown, manipulatives appropriate for indicated lesson, instructional technology indicated).
Rating: Strong
Comments:

2. Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.
Rating: Strong
Comments:

3. Extension activities including adaptations and accommodations for students with special needs.
Rating: Strong
Comments:

4. Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections within mathematics, and references (e.g., solutions manuals, study guides).
Rating: Strong
Comments:

5. Suggestions are made for integration of themes and/or interdisciplinary instruction.
Rating: Strong
Comments:

6. Suggestions are made for family and community involvement and school/home communication.
Rating: Strong
Comments:

7. The included media are durable, easy to use, and have technical merit.

Rating: Strong
Comments:

8. Teacher resources are available online.
Rating: Strong
Comments:

Advanced Mathematical Concepts: Precalculus with Applications

Publisher: Glencoe/McGraw-Hill

Evaluator Name(s): Collins, Susan Embry, Keith Caldwell, Julie Abshire, Dianna

Content Level: PreCalculus

Overall Strengths and/or Weaknesses

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CONTENT/PROCESS

Strengths: National Standards correlations are in the front of the book. Connections to other content areas and to real-life are within the problem sets. Technology integration is strong.

Weaknesses: "Addressing Individual Needs" in the TE need further explanation and solution details.

ASSESSMENT

Strengths: Open ended assessments and internet projects offer the students opportunities to communicate their ideas. Problem sets include real-life situations and interdisciplinary applications. Multiple choice and open response are strong. Strong graphing calculator integration.

Weaknesses: The small group assessments are not identified but many of the activities could be adapted into group activities.

ORGANIZATION AND STRUCTURE

Strengths: Key terms are highlighted and boldface and listed in guides in the back of the book. Color, margins, and graphics are used effectively. Good size; conducive to lockers and book bags. Appropriate symbols and formulas are listed. The color coded sections are an asset.

Weaknesses: None noted.

STUDENT EXPERIENCES

Strengths: Communicating Mathematics sections and problem sets provides adequate opportunity for students to read, write, and discuss mathematics.

Weaknesses: TE gives general suggestions for investigations but the student edition needs more emphasis. Group activities are only suggested in the TE. More step by step investigations are needed in the student text.

TECHNOLOGY

Strength: Online support provides additional practice for each lesson. CBL and TI-92 manual provided. Many graphing calculator activities are found. Interactive Diagrams CD is user friendly and allows a teacher to present the dynamic aspects of a concept. Advanced MathPass tutorial offers pretest, tutorial, guided practice, and post test for each section. If a student passes the pretest they have the option of skipping that tutorial. If a student does not pass the pretest, they are automatically put through the tutorial. The TestCheck and Worksheet Builder CD is very user friendly. An interactive lesson planner which contains a point and click TE and hotlinks to the internet is provided.

Weaknesses: None noted.

Advanced Mathematical Concepts: Precalculus with Applications

Publisher: Glencoe/McGraw-Hill

RESOURCE MATERIALS

Strengths: "Math and Science Activities" booklet included with gratis items. Many connections are made within the problem sets. Hotlinks available on Interactive TE. Answer Key transparencies are included with gratis items. The Interactive Diagrams CD, interactive TE CD, Interactive Lesson Planner CD, MathPass Tutorial CD, and Test/Worksheet Generator CD provided are extremely user friendly.

Weaknesses: Solutions manual not included with gratis items. Common student errors and hints are not provided. No suggestions are made for family and community involvement.

If this material is available in digital format, KDE strongly recommends that it be considered if there are students in the school who have a need for this type of material. **Is Not Available in digital format**

Recommended by reviewers to State Textbook Commission as a basal textbook or program.

OTHER COMMENTS:

PUBLISHER'S EXPLANATION OF REVIEWERS' COMMENTS

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STANDARDS FOR MATHEMATICS EVALUATION INSTRUMENT

Content/Process

1. **Material is comprehensive and includes content emphasized in Kentucky's Learning Goals and Academic Expectations and supported by the Core Content for Assessment, Program of Studies, and relevant National Standards.**

Rating: Adequate
Comments:

2. **Content appears to be free from factual errors.**

Rating: Adequate
Comments:

3. **Content makes connections to other content areas across the curriculum.**

Rating: Adequate
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4. **Concepts and application of skills to real-life situations are introduced when appropriate.**

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6. Material is flexible and accommodates various learning styles, interest/ability levels, and intelligences, including adaptations and accommodations for students with special needs.
Rating: Adequate
Comments:

7. Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.
Rating: Adequate
Comments:

8. Content reflects research-based practices (e.g., hands-on activities, technology, problem-solving situations).
Rating: Adequate
Comments:

9. Concepts are explored in depth and reinforced throughout.
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Comments:

Assessment

1. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.
Rating: Adequate
Comments:

2. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.
Rating: Adequate
Comments:

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Rating: Adequate

Comments:

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Comments:

Organization and Structure

1. Organization is logical and allows for spiraling of content.
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6. Legible type, length of lines, spacing, page layout, and width of margins contribute to overall appearance and use.
Rating: Adequate
Comments:

7. Student materials seem durable and conducive to daily student use (e.g., size, weight).
Rating: Adequate
Comments:

8. Textbook includes appropriate and sufficient glossary, index, and appendices.
Rating: Adequate
Comments:

9. Materials are organized into units of study (or similar structures) with daily lessons that include worthwhile, real-world tasks.
Rating: Adequate
Comments:

10. Materials can be easily understood by students and parents.
Rating: Adequate
Comments:

Student Experiences

1. The program emphasizes students *doing* mathematics rather than *memorizing* mathematics.
Rating: Weak
Comments:

2. Both group and individual activities are included.
Rating: Weak
Comments:

3. Materials and activities provide authentic applications that allow students to make meaningful connections across the curriculum, to real-world situations, and to interrelated mathematical concepts.
Rating: Weak
Comments:

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Rating: Weak
Comments:

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Rating: Weak
Comments:

6. Materials and activities ask students to reflect upon, clarify, justify, and generalize their mathematical ideas.
Rating: Weak
Comments:

Technology

1. **In order for students to focus on decision-making, reflection, reasoning, and problem solving, instructional activities incorporate the use of technology (e.g. calculators, probes, computers) and include instructions on how to use the technology tools.**

Rating: Strong
Comments:

2. **Various forms of media are included (e.g., CDs, videos, computer software).**

Rating: Strong
Comments:

3. **Student materials are available online.**

Rating: Strong
Comments:

Resource Materials

1. **Teacher materials coordinate easily with student materials (e.g., additional resources included at point of need, student pages shown, manipulatives appropriate for indicated lesson, instructional technology indicated).**

Rating: Strong
Comments:

2. **Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.**

Rating: Strong
Comments:

3. **Extension activities including adaptations and accommodations for students with special needs.**

Rating: Strong
Comments:

4. **Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections within mathematics, and references (e.g., solutions manuals, study guides).**

Rating: Strong
Comments:

5. Suggestions are made for integration of themes and/or interdisciplinary instruction.
Rating: Strong
Comments:

6. Suggestions are made for family and community involvement and school/home communication.
Rating: Strong
Comments:

7. The included media are durable, easy to use, and have technical merit.
Rating: Strong
Comments:

8. Teacher resources are available online.
Rating: Strong
Comments:

Calculus (2e)

Publisher: Glencoe/McGraw-Hill

Evaluator Name(s): McCord, Bobbie Son, Steve

Content Level:

Overall Strengths and/or Weaknesses

Disclaimer: Comments on the strengths and/or weaknesses of each book or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions. They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/Instructional Materials Review team completed each evaluation form during the week of July 8-12, 2002. In order to maintain the integrity of the review team's comments, editing was limited to spelling and punctuation.

CONTENT/PROCESS
Strengths: None noted.
Weaknesses: None noted.

ASSESSMENT
Strengths: None noted.
Weaknesses: The assessment materials were listed as being on-line. We were not able to access them to evaluate them.

ORGANIZATION AND STRUCTURE
Strengths: None noted.
Weaknesses: Text does not meet manufacturing standards for high school texts.

STUDENT EXPERIENCES
Strengths: None noted.
Weaknesses: Because we could not access the on-line materials, the only activities that cover these areas were in the homework problems.

TECHNOLOGY
Strength: None noted.
Weaknesses: No forms of media were included for evaluation.

RESOURCE MATERIALS
Strengths: None noted.
Weaknesses: Teacher resources were on-line and we could not access them for review.

If this material is available in digital format, KDE strongly recommends that it be considered if there are students in the school who have a need for this type of material. **Is Not Available in digital format**

Recommended by reviewers to State Textbook Commission as a basal textbook or program.

OTHER COMMENTS:

Calculus (2e)

Publisher: Glencoe/McGraw-Hill

PUBLISHER'S EXPLANATION OF REVIEWERS' COMMENTS

(By action of the State Textbook Commission, publishers are being provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the written evaluation.)

STANDARDS FOR MATHEMATICS EVALUATION INSTRUMENT

Content/Process

1. **Material is comprehensive and includes content emphasized in Kentucky's Learning Goals and Academic Expectations and supported by the Core Content for Assessment, Program of Studies, and relevant National Standards.**

Rating: Not Applicable
Comments: Text is for an AP class.

2. **Content appears to be free from factual errors.**

Rating: Not Applicable
Comments: Text is for an AP class.

3. **Content makes connections to other content areas across the curriculum.**

Rating: Not Applicable
Comments: Text is for an AP class.

4. **Concepts and application of skills to real-life situations are introduced when appropriate.**

Rating: Not Applicable
Comments: Text is for an AP class.

5. **Content appears to be free of social, ethnic, racial, religious, gender, and geographic bias.**

Rating: Not Applicable
Comments: Text is for an AP class.

6. **Material is flexible and accommodates various learning styles, interest/ability levels, and intelligences, including adaptations and accommodations for students with special needs.**

Rating: Not Applicable
Comments: Text is for an AP class.

7. **Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.**

Rating: Not Applicable
Comments: Text is for an AP class.

8. Content reflects research-based practices (e.g., hands-on activities, technology, problem-solving situations).
Rating: Not Applicable
Comments: Text is for an AP class.

9. Concepts are explored in depth and reinforced throughout.
Rating: Not Applicable
Comments: Text is for an AP class.

Assessment

1. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.
Rating: Missing
Comments:

2. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.
Rating: Missing
Comments:

3. Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.
Rating: Missing
Comments:

4. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.
Rating: Missing
Comments:

5. Assessment activities provide opportunities for student integration of technology in the assessment process.
Rating: Missing
Comments:

6. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.
Rating: Missing
Comments:

7. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.
Rating: Missing
Comments:

8. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.
Rating: Missing
Comments:

9. Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.
Rating: Missing
Comments:

10. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.
Rating: Missing
Comments:

11. Assessment activities provide opportunities for student integration of technology in the assessment process.
Rating: Missing
Comments:

Organization and Structure

1. Organization is logical and allows for spiraling of content.
Rating: Adequate
Comments:

2. Language is clear and concise with correct grammar and sentence structure.
Rating: Adequate
Comments:

3. Vocabulary and key terms are clearly defined and easily accessible within each lesson.
Rating: Adequate
Comments:

4. Visual illustrations (e.g., graphs, charts, models) and examples are clearly presented and content-related.
Rating: Adequate
Comments:

5. Illustrations and language reflect diversity (e.g., racial, ethnic, cultural, age, gender, disabilities).
Rating: Adequate
Comments:

6. Legible type, length of lines, spacing, page layout, and width of margins contribute to overall appearance and use.
Rating: Adequate
Comments:

7. Student materials seem durable and conducive to daily student use (e.g., size, weight).
Rating: Adequate
Comments:

8. Textbook includes appropriate and sufficient glossary, index, and appendices.
Rating: Adequate
Comments:

9. Materials are organized into units of study (or similar structures) with daily lessons that include worthwhile, real-world tasks.
Rating: Adequate
Comments:

10. Materials can be easily understood by students and parents.
Rating: Adequate
Comments:

Student Experiences

Calculus (2e)

Publisher: Glencoe/McGraw-Hill

1. The program emphasizes students *doing* mathematics rather than *memorizing* mathematics.
Rating: Adequate
Comments:

2. Both group and individual activities are included.
Rating: Adequate
Comments:

3. Materials and activities provide authentic applications that allow students to make meaningful connections across the curriculum, to real-world situations, and to interrelated mathematical concepts.
Rating: Adequate
Comments:

4. Materials and activities encourage students to explore and investigate mathematical ideas through various problem-solving techniques.
Rating: Adequate
Comments:

5. Materials and activities encourage students to read, write, and discuss mathematics.
Rating: Adequate
Comments:

6. Materials and activities ask students to reflect upon, clarify, justify, and generalize their mathematical ideas.
Rating: Adequate
Comments:

Technology

1. In order for students to focus on decision-making, reflection, reasoning, and problem solving, instructional activities incorporate the use of technology (e.g. calculators, probes, computers) and include instructions on how to use the technology tools.
Rating: Adequate
Comments:

2. Various forms of media are included (e.g., CDs, videos, computer software).
Rating: Adequate

Comments:

3. Student materials are available online.
Rating: Adequate
Comments:

Resource Materials

1. Teacher materials coordinate easily with student materials (e.g., additional resources included at point of need, student pages shown, manipulatives appropriate for indicated lesson, instructional technology indicated).
Rating: Adequate
Comments:

2. Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.
Rating: Adequate
Comments:

3. Extension activities including adaptations and accommodations for students with special needs.
Rating: Adequate
Comments:

4. Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections within mathematics, and references (e.g., solutions manuals, study guides).
Rating: Adequate
Comments:

5. Suggestions are made for integration of themes and/or interdisciplinary instruction.
Rating: Adequate
Comments:

6. Suggestions are made for family and community involvement and school/home communication.
Rating: Adequate
Comments:

7. The included media are durable, easy to use, and have technical merit.
Rating: Adequate

Comments:

8. Teacher resources are available online.
Rating: Adequate
Comments:

Geometry: Concepts & Applications

Publisher: Glencoe/McGraw-Hill

Evaluator Name(s): Durham, Keith Lindsey, Janet

Content Level:

Overall Strengths and/or Weaknesses

Disclaimer: Comments on the strengths and/or weaknesses of each book or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions. They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/Instructional Materials Review team completed each evaluation form during the week of July 8-12, 2002. In order to maintain the integrity of the review team's comments, editing was limited to spelling and punctuation.

CONTENT/PROCESS

Strengths: The program covers most topics of the Kentucky Program of Studies for geometry. A variety of learning styles and multiple intelligences are addressed.

Weaknesses: Conversion between units of measurement within a system was not observed.

ASSESSMENT

Strengths: A variety of assessment tools are provided in the teacher resources. The use of technology is incorporated throughout. Both multiple-choice and open response questions are provided with each unit.

Weaknesses: No weaknesses observed.

ORGANIZATION AND STRUCTURE

Strengths: The program is well-structured. The "wrap-around" format of the teacher's edition provides information about objectives, extensions, alternate assessment, and remediation at the point of need.

Weaknesses: No weaknesses observed.

STUDENT EXPERIENCES

Strengths: The program encourages students to reflect upon and extend their own learning. The activities allow for a variety of learning styles and multiple intelligences. Numerous real-world and interdisciplinary activities are included.

Weaknesses: No weaknesses observed.

TECHNOLOGY

Strength: Technology is embedded in the daily lessons. The teacher's edition includes suggestions for the use of technology in the classroom, both as assessment and instructional tools.

Weaknesses: No weaknesses observed.

RESOURCE MATERIALS

Strengths: The teacher's edition provides information about objectives, extensions, alternate assessment, and remediation at the point of need. There are extensive teacher resources for a variety of instructional needs, including the use of technology, manipulatives, enrichment, authentic applications, and remediation.

Weaknesses: No weaknesses observed.

Geometry: Concepts & Applications

Publisher: Glencoe/McGraw-Hill

If this material is available in digital format, KDE strongly recommends that it be considered if there are students in the school who have a need for this type of material. **Is Not Available in digital format**

Recommended by reviewers to State Textbook Commission as a basal textbook or program.

OTHER COMMENTS:

PUBLISHER'S EXPLANATION OF REVIEWERS' COMMENTS

(By action of the State Textbook Commission, publishers are being provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the written evaluation.)

In the area of content/process concerning units of measurement within a system, see Example 2 on page 50 and the related Exercises 12, 23, 24, 25, and 26 on page 353.

Digital format:

-Glencoe's Interactive Student Edition CD-ROM was developed in Adobe Acrobat 5.0 for Windows with Search and Accessibility.

-Acrobat Reader 5.0 includes support for screen readers (accessibility) via the Microsoft Active Access API (MSAA).

-When online textbooks become available at www.mhln.com, the site will conform to Section 508 development standards.

STANDARDS FOR MATHEMATICS EVALUATION INSTRUMENT

Content/Process

1. **Material is comprehensive and includes content emphasized in Kentucky's Learning Goals and Academic Expectations and supported by the Core Content for Assessment, Program of Studies, and relevant National Standards.**

Rating: Adequate

Comments: Conversions between units of measurement was not observed.

2. **Content appears to be free from factual errors.**

Rating: Adequate

Comments: Conversions between units of measurement was not observed.

3. **Content makes connections to other content areas across the curriculum.**

Rating: Adequate

Comments: Conversions between units of measurement was not observed.

4. **Concepts and application of skills to real-life situations are introduced when appropriate.**

Rating: Adequate
Comments: Conversions between units of measurement was not observed.

5. Content appears to be free of social, ethnic, racial, religious, gender, and geographic bias.
Rating: Adequate
Comments: Conversions between units of measurement was not observed.

6. Material is flexible and accommodates various learning styles, interest/ability levels, and intelligences, including adaptations and accommodations for students with special needs.
Rating: Adequate
Comments: Conversions between units of measurement was not observed.

7. Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.
Rating: Adequate
Comments: Conversions between units of measurement was not observed.

8. Content reflects research-based practices (e.g., hands-on activities, technology, problem-solving situations).
Rating: Adequate
Comments: Conversions between units of measurement was not observed.

9. Concepts are explored in depth and reinforced throughout.
Rating: Adequate
Comments: Conversions between units of measurement was not observed.

Assessment

1. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.
Rating: Strong
Comments:

2. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.
Rating: Strong
Comments:

3. **Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.**

Rating: Strong
Comments:

4. **A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**

Rating: Strong
Comments:

5. **Assessment activities provide opportunities for student integration of technology in the assessment process.**

Rating: Strong
Comments:

6. **Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

Rating: Strong
Comments:

7. **Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

Rating: Strong
Comments:

8. **Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.**

Rating: Strong
Comments:

9. **Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.**

Rating: Strong
Comments:

10. **A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**

Rating: Strong
Comments:

11. Assessment activities provide opportunities for student integration of technology in the assessment process.
Rating: Strong
Comments:

Organization and Structure

1. Organization is logical and allows for spiraling of content.
Rating: Strong
Comments:

2. Language is clear and concise with correct grammar and sentence structure.
Rating: Strong
Comments:

3. Vocabulary and key terms are clearly defined and easily accessible within each lesson.
Rating: Strong
Comments:

4. Visual illustrations (e.g., graphs, charts, models) and examples are clearly presented and content-related.
Rating: Strong
Comments:

5. Illustrations and language reflect diversity (e.g., racial, ethnic, cultural, age, gender, disabilities).
Rating: Strong
Comments:

6. Legible type, length of lines, spacing, page layout, and width of margins contribute to overall appearance and use.
Rating: Strong
Comments:

7. Student materials seem durable and conducive to daily student use (e.g., size, weight).
Rating: Strong
Comments:

8. Textbook includes appropriate and sufficient glossary, index, and appendices.

Rating: Strong
Comments:

9. **Materials are organized into units of study (or similar structures) with daily lessons that include worthwhile, real-world tasks.**

Rating: Strong
Comments:

10. **Materials can be easily understood by students and parents.**

Rating: Strong
Comments:

Student Experiences

1. **The program emphasizes students *doing* mathematics rather than *memorizing* mathematics.**

Rating: Strong
Comments:

2. **Both group and individual activities are included.**

Rating: Strong
Comments:

3. **Materials and activities provide authentic applications that allow students to make meaningful connections across the curriculum, to real-world situations, and to interrelated mathematical concepts.**

Rating: Strong
Comments:

4. **Materials and activities encourage students to explore and investigate mathematical ideas through various problem-solving techniques.**

Rating: Strong
Comments:

5. **Materials and activities encourage students to read, write, and discuss mathematics.**

Rating: Strong
Comments:

6. Materials and activities ask students to reflect upon, clarify, justify, and generalize their mathematical ideas.
Rating: Strong
Comments:

Technology

1. In order for students to focus on decision-making, reflection, reasoning, and problem solving, instructional activities incorporate the use of technology (e.g. calculators, probes, computers) and include instructions on how to use the technology tools.
Rating: Strong
Comments:

2. Various forms of media are included (e.g., CDs, videos, computer software).
Rating: Strong
Comments:

3. Student materials are available online.
Rating: Strong
Comments:

Resource Materials

1. Teacher materials coordinate easily with student materials (e.g., additional resources included at point of need, student pages shown, manipulatives appropriate for indicated lesson, instructional technology indicated).
Rating: Strong
Comments:

2. Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.
Rating: Strong
Comments:

3. Extension activities including adaptations and accommodations for students with special needs.
Rating: Strong
Comments:

4. Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections within mathematics, and references (e.g., solutions manuals, study guides).

Rating: Strong
Comments:

5. Suggestions are made for integration of themes and/or interdisciplinary instruction.
Rating: Strong
Comments:

6. Suggestions are made for family and community involvement and school/home communication.
Rating: Strong
Comments:

7. The included media are durable, easy to use, and have technical merit.
Rating: Strong
Comments:

8. Teacher resources are available online.
Rating: Strong
Comments:

Glencoe Algebra I

Publisher: Glencoe/McGraw-Hill

Evaluator Name(s): Vaughn, Selena Dillman, Bruce McNew, Melinda Wilson, Kellie

Content Level: Algebra I

Overall Strengths and/or Weaknesses

Disclaimer: Comments on the strengths and/or weaknesses of each book or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions. They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/Instructional Materials Review team completed each evaluation form during the week of July 8-12, 2002. In order to maintain the integrity of the review team's comments, editing was limited to spelling and punctuation.

CONTENT/PROCESS

Strengths: While the textbook is strong in its coverage of Kentucky's Core Content, the supplemental materials are also very strong and will provide many opportunities for teachers to enhance their curriculum if this series is chosen. The worksheet and test generator CD is Kentucky specific, and it provides resources for real-world applications. The entire textbook is available on a CD for students' use, and other online resources are available.

Weaknesses: While different learning styles are addressed through the materials provided (e.g. a separate "Hot Words Hot Topics" book can be used for remediation, and the teacher's edition provides opportunities for enrichment and differentiated instruction), we felt that needs of struggling students were only adequately addressed.

ASSESSMENT

Strengths: This title provides a wide variety of assessment forms, as well as making it easy to tie each to the corresponding section in the textbook. Besides using the learned mathematical concepts in assessment, most activities tie to real-world or cross-curriculum situations.

Weaknesses: No weaknesses were observed.

ORGANIZATION AND STRUCTURE

Strengths: The textbook is well organized into units and individual lessons that tie to real-world situations. The textbook is easy to follow and the page layout is conducive to student learning.

Weaknesses: No weaknesses were observed.

STUDENT EXPERIENCES

Strengths: These materials provide the student with a wide variety of learning experiences. Besides teach mathematical concepts, these materials tie those concepts to real-world situations through use of science labs, economic situations, etc. Students are given the opportunity to work individually or in groups using a wide variety of materials.

Weaknesses: No weaknesses were observed.

TECHNOLOGY

Strength: These materials include a handbook on graphing calculators, a handbook on the Internet, various CD's with student and teacher resources, and online coordination. Activities throughout the book require technology, including use of spreadsheets. The website provides links to assist students in studying, in working on research projects (using webquests) and in working with their parents.

Weaknesses: No weaknesses were observed.

Glencoe Algebra I

Publisher: Glencoe/McGraw-Hill

RESOURCE MATERIALS

Strengths: This title provides not only a quality textbook, but a wealth of supplemental materials including handbooks, CD's, videos and websites. If all of the resources are used, this is a very strong Algebra I title.

Weaknesses: No weaknesses were observed.

If this material is available in digital format, KDE strongly recommends that it be considered if there are students in the school who have a need for this type of material. **Is Not Available in digital format**

Recommended by reviewers to State Textbook Commission as a basal textbook or program.

OTHER COMMENTS:

PUBLISHER'S EXPLANATION OF REVIEWERS' COMMENTS

(By action of the State Textbook Commission, publishers are being provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the written evaluation.)

Helping students struggling with:

-math reading and writing is summarized on the "f" pages of each interleaf chapter of the TE. See p. 4f.

-algebra comprehension is aided by Mixed Reviews that include practice on new content from the prior two lessons. See p. 109.

-new concepts are aided by the use of color and inset boxes. See examples 2 and 3 on p. 273.

Digital format:

-Glencoe's Interactive Student Edition CD-ROM was developed in Adobe Acrobat 5.0 for WIndows with Search and Accessibility.

-Acrobat Reader 5.0 includes support for screen readers (accessbility) via the Microsoft Active Access API (MSAA).

-When online textbooks become available at www.mhln.com, the site will conform to Section 508 development standards.

STANDARDS FOR MATHEMATICS EVALUATION INSTRUMENT

Content/Process

1. **Material is comprehensive and includes content emphasized in Kentucky's Learning Goals and Academic Expectations and supported by the Core Content for Assessment, Program of Studies, and relevant National Standards.**

Rating: Strong

Comments:

2. **Content appears to be free from factual errors.**

Rating: Strong

Comments:

3. Content makes connections to other content areas across the curriculum.
Rating: Strong
Comments:

4. Concepts and application of skills to real-life situations are introduced when appropriate.
Rating: Strong
Comments:

5. Content appears to be free of social, ethnic, racial, religious, gender, and geographic bias.
Rating: Strong
Comments:

6. Material is flexible and accommodates various learning styles, interest/ability levels, and intelligences, including adaptations and accommodations for students with special needs.
Rating: Strong
Comments:

7. Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.
Rating: Strong
Comments:

8. Content reflects research-based practices (e.g., hands-on activities, technology, problem-solving situations).
Rating: Strong
Comments:

9. Concepts are explored in depth and reinforced throughout.
Rating: Strong
Comments:

Assessment

1. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.
Rating: Strong
Comments:

2. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.
Rating: Strong
Comments:

3. Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.
Rating: Strong
Comments:

4. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.
Rating: Strong
Comments:

5. Assessment activities provide opportunities for student integration of technology in the assessment process.
Rating: Strong
Comments:

6. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.
Rating: Strong
Comments:

7. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.
Rating: Strong
Comments:

8. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.
Rating: Strong
Comments:

9. Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.
Rating: Strong
Comments:

10. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.
Rating: Strong
Comments:

11. Assessment activities provide opportunities for student integration of technology in the assessment process.
Rating: Strong
Comments:

Organization and Structure

1. Organization is logical and allows for spiraling of content.
Rating: Strong
Comments:

2. Language is clear and concise with correct grammar and sentence structure.
Rating: Strong
Comments:

3. Vocabulary and key terms are clearly defined and easily accessible within each lesson.
Rating: Strong
Comments:

4. Visual illustrations (e.g., graphs, charts, models) and examples are clearly presented and content-related.
Rating: Strong
Comments:

5. Illustrations and language reflect diversity (e.g., racial, ethnic, cultural, age, gender, disabilities).
Rating: Strong
Comments:

6. Legible type, length of lines, spacing, page layout, and width of margins contribute to overall appearance and use.
Rating: Strong
Comments:

7. Student materials seem durable and conducive to daily student use (e.g., size, weight).
Rating: Strong
Comments:

8. Textbook includes appropriate and sufficient glossary, index, and appendices.
Rating: Strong
Comments:

9. Materials are organized into units of study (or similar structures) with daily lessons that include worthwhile, real-world tasks.
Rating: Strong
Comments:

10. Materials can be easily understood by students and parents.
Rating: Strong
Comments:

Student Experiences

1. The program emphasizes students *doing* mathematics rather than *memorizing* mathematics.
Rating: Strong
Comments:

2. Both group and individual activities are included.
Rating: Strong
Comments:

3. Materials and activities provide authentic applications that allow students to make meaningful connections across the curriculum, to real-world situations, and to interrelated mathematical concepts.
Rating: Strong
Comments:

4. Materials and activities encourage students to explore and investigate mathematical ideas through various problem-solving techniques.
Rating: Strong
Comments:

5. Materials and activities encourage students to read, write, and discuss mathematics.
Rating: Strong
Comments:

6. Materials and activities ask students to reflect upon, clarify, justify, and generalize their mathematical ideas.
Rating: Strong
Comments:

Technology

1. In order for students to focus on decision-making, reflection, reasoning, and problem solving, instructional activities incorporate the use of technology (e.g. calculators, probes, computers) and include instructions on how to use the technology tools.
Rating: Strong
Comments: Materials include spreadsheet activities, graphing calculator activities, interactive CD, and videos. Additionally, online access is available.

2. Various forms of media are included (e.g., CDs, videos, computer software).
Rating: Strong
Comments: Materials include spreadsheet activities, graphing calculator activities, interactive CD, and videos. Additionally, online access is available.

3. Student materials are available online.
Rating: Strong
Comments: Materials include spreadsheet activities, graphing calculator activities, interactive CD, and videos. Additionally, online access is available.

Resource Materials

1. Teacher materials coordinate easily with student materials (e.g., additional resources included at point of need, student pages shown, manipulatives appropriate for indicated lesson, instructional technology indicated).
Rating: Strong
Comments:

2. Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.
Rating: Strong

Comments:

3. Extension activities including adaptations and accommodations for students with special needs.
Rating: Strong
Comments:

4. Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections within mathematics, and references (e.g., solutions manuals, study guides).
Rating: Strong
Comments:

5. Suggestions are made for integration of themes and/or interdisciplinary instruction.
Rating: Strong
Comments:

6. Suggestions are made for family and community involvement and school/home communication.
Rating: Strong
Comments:

7. The included media are durable, easy to use, and have technical merit.
Rating: Strong
Comments:

8. Teacher resources are available online.
Rating: Strong
Comments:

Glencoe Algebra: Concepts & Applications

Publisher: Glencoe/McGraw-Hill

Evaluator Name(s): Vaughn, Selena Dillman, Bruce McNew, Melinda Wilson, Kellie

Content Level: Algebra I

Overall Strengths and/or Weaknesses

Disclaimer: Comments on the strengths and/or weaknesses of each book or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions. They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/Instructional Materials Review team completed each evaluation form during the week of July 8-12, 2002. In order to maintain the integrity of the review team's comments, editing was limited to spelling and punctuation.

CONTENT/PROCESS

Strengths: This series addresses all required Kentucky Core Content in a way that focuses on various learning styles. The content is presented in a way that will benefit students who have struggled with previous mathematics courses.
Weaknesses: No weaknesses were observed.

ASSESSMENT

Strengths: This title provides many different and varied types of assessments including standardized test practice and open-ended questions. This variety is present in each and every chapter. At the beginning of each chapter, students are given the opportunity to work on projects that promote discovery learning and prepare portfolio entries based on these projects. The assessment materials presented with this title are some of the greatest strengths of this title.
Weaknesses: No weaknesses were observed.

ORGANIZATION AND STRUCTURE

Strengths: This title is organized by chapter consisting of several lessons. Each chapter provides an opportunity for a group project with optional portfolio component, and addresses what students will learn and why they need to learn it (career component).
Weaknesses: No weaknesses were observed.

STUDENT EXPERIENCES

Strengths: Students are provided with many varied types of experiences in this title. Among the provided resources, they can work exercises in Guided Practice, Practice, Communicating Mathematics and Check for Understanding components. Additionally, there is group work and individual work, and open-ended and portfolio opportunities. All of the mathematics is tied to real-world situations.
Weaknesses: No weaknesses were observed.

TECHNOLOGY

Strength: Besides providing opportunities for students to use graphing calculators throughout the text, Glencoe has provided an excellent interactive web page for student use in studying. Sample problems and test questions give students hints to assist them in answering questions they are having trouble with. A teacher resource CD contains all of the resource materials and provides a calendar that teachers can use to prepare lesson plans.
Weaknesses: No weaknesses were observed.

RESOURCE MATERIALS

Strengths: This title provides a wealth of resource materials available in print,CD format, and online. The teacher's edition identifies eight different learning styles that are addressed throughout the book. Online resources are valuable for student use.
Weaknesses: No weaknesses were observed.

Glencoe Algebra: Concepts & Applications

Publisher: Glencoe/McGraw-Hill

If this material is available in digital format, KDE strongly recommends that it be considered if there are students in the school who have a need for this type of material. **Is Not Available in digital format**

Recommended by reviewers to State Textbook Commission as a basal textbook or program.

OTHER COMMENTS:

PUBLISHER'S EXPLANATION OF REVIEWERS' COMMENTS

(By action of the State Textbook Commission, publishers are being provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the written evaluation.)

STANDARDS FOR MATHEMATICS EVALUATION INSTRUMENT

Content/Process

1. **Material is comprehensive and includes content emphasized in Kentucky's Learning Goals and Academic Expectations and supported by the Core Content for Assessment, Program of Studies, and relevant National Standards.**

Rating: Strong
Comments:

2. **Content appears to be free from factual errors.**

Rating: Strong
Comments:

3. **Content makes connections to other content areas across the curriculum.**

Rating: Strong
Comments:

4. **Concepts and application of skills to real-life situations are introduced when appropriate.**

Rating: Strong
Comments:

5. **Content appears to be free of social, ethnic, racial, religious, gender, and geographic bias.**

Rating: Strong
Comments:

6. **Material is flexible and accommodates various learning styles, interest/ability levels, and intelligences, including adaptations and accommodations for students with special needs.**

Rating: Strong
Comments:

7. **Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.**

Rating: Strong
Comments:

8. **Content reflects research-based practices (e.g., hands-on activities, technology, problem-solving situations).**

Rating: Strong
Comments:

9. **Concepts are explored in depth and reinforced throughout.**

Rating: Strong
Comments:

Assessment

1. **Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

Rating: Strong
Comments:

2. **Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.**

Rating: Strong
Comments:

3. **Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.**

Rating: Strong
Comments:

4. **A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**

Rating: Strong

Comments:

5. Assessment activities provide opportunities for student integration of technology in the assessment process.
Rating: Strong
Comments:

6. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.
Rating: Strong
Comments:

7. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.
Rating: Strong
Comments:

8. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.
Rating: Strong
Comments:

9. Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.
Rating: Strong
Comments:

10. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.
Rating: Strong
Comments:

11. Assessment activities provide opportunities for student integration of technology in the assessment process.
Rating: Strong
Comments:

Organization and Structure

1. Organization is logical and allows for spiraling of content.

Rating: Strong
Comments:

2. Language is clear and concise with correct grammar and sentence structure.
Rating: Strong
Comments:

3. Vocabulary and key terms are clearly defined and easily accessible within each lesson.
Rating: Strong
Comments:

4. Visual illustrations (e.g., graphs, charts, models) and examples are clearly presented and content-related.
Rating: Strong
Comments:

5. Illustrations and language reflect diversity (e.g., racial, ethnic, cultural, age, gender, disabilities).
Rating: Strong
Comments:

6. Legible type, length of lines, spacing, page layout, and width of margins contribute to overall appearance and use.
Rating: Strong
Comments:

7. Student materials seem durable and conducive to daily student use (e.g., size, weight).
Rating: Strong
Comments:

8. Textbook includes appropriate and sufficient glossary, index, and appendices.
Rating: Strong
Comments:

9. Materials are organized into units of study (or similar structures) with daily lessons that include worthwhile, real-world tasks.
Rating: Strong
Comments:

10. Materials can be easily understood by students and parents.
Rating: Strong
Comments:

Student Experiences

1. The program emphasizes students *doing* mathematics rather than *memorizing* mathematics.
Rating: Strong
Comments:

2. Both group and individual activities are included.
Rating: Strong
Comments:

3. Materials and activities provide authentic applications that allow students to make meaningful connections across the curriculum, to real-world situations, and to interrelated mathematical concepts.
Rating: Strong
Comments:

4. Materials and activities encourage students to explore and investigate mathematical ideas through various problem-solving techniques.
Rating: Strong
Comments:

5. Materials and activities encourage students to read, write, and discuss mathematics.
Rating: Strong
Comments:

6. Materials and activities ask students to reflect upon, clarify, justify, and generalize their mathematical ideas.
Rating: Strong
Comments:

Technology

1. In order for students to focus on decision-making, reflection, reasoning, and problem solving, instructional activities incorporate the use of technology (e.g. calculators, probes, computers) and include instructions on how to use the technology tools.

Rating: Strong
Comments:

2. Various forms of media are included (e.g., CDs, videos, computer software).
Rating: Strong
Comments:

3. Student materials are available online.
Rating: Strong
Comments:

Resource Materials

1. Teacher materials coordinate easily with student materials (e.g., additional resources included at point of need, student pages shown, manipulatives appropriate for indicated lesson, instructional technology indicated).
Rating: Strong
Comments:

2. Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.
Rating: Strong
Comments:

3. Extension activities including adaptations and accommodations for students with special needs.
Rating: Strong
Comments:

4. Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections within mathematics, and references (e.g., solutions manuals, study guides).
Rating: Strong
Comments:

5. Suggestions are made for integration of themes and/or interdisciplinary instruction.
Rating: Strong
Comments:

6. Suggestions are made for family and community involvement and school/home communication.

Rating: Strong
Comments:

7. The included media are durable, easy to use, and have technical merit.
Rating: Strong
Comments:

8. Teacher resources are available online.
Rating: Strong
Comments:

Glencoe Geometry: Integration, Applications, Connections

Publisher: Glencoe/McGraw-Hill

Evaluator Name(s): Durham, Keith Lindsey, Janet

Content Level:

Overall Strengths and/or Weaknesses

Disclaimer: Comments on the strengths and/or weaknesses of each book or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions. They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/Instructional Materials Review team completed each evaluation form during the week of July 8-12, 2002. In order to maintain the integrity of the review team's comments, editing was limited to spelling and punctuation.

CONTENT/PROCESS
Strengths: The program provides comprehensive coverage of the Kentucky Core Content. A variety of learning styles and multiple intelligences are addressed.
Weaknesses: No weaknesses observed.

ASSESSMENT
Strengths: A variety of assessment tools are provided in the teacher resources. The use of technology is incorporated throughout. Both multiple-choice and open response questions are provided with each unit. A special bank of ACT/SAT prep questions is also included within the assessment package.
Weaknesses: No weaknesses observed.

ORGANIZATION AND STRUCTURE
Strengths: The program is well-structured. The "wrap-around" format of the teacher's edition provides information about objectives, extensions, alternate assessment, and remediation at the point of need.
Weaknesses: The student text is written at a ninth-grade reading level, which may hinder independent study for some students and parents.

STUDENT EXPERIENCES
Strengths: The program requires students to reflect upon and extend their own learning. The activities allow for a variety of learning styles and multiple intelligences. Numerous real-world and interdisciplinary activities are included.
Weaknesses: No weaknesses observed.

TECHNOLOGY
Strength: Technology is embedded in the daily lessons. The teacher's edition includes suggestions for the use of technology in the classroom, both as assessment and instructional tools.
Weaknesses: No weaknesses observed.

RESOURCE MATERIALS
Strengths: The teacher's edition provides information about objectives, extensions, alternate assessment, and remediation at the point of need. There are extensive teacher resources for a variety of instructional needs, including the use of technology, manipulatives, enrichment, authentic applications, and remediation.
Weaknesses: No weaknesses observed.

If this material is available in digital format, KDE strongly recommends that it be considered if there are students in the school who have a need for this type of material. **Is Not Available in digital format**

Glencoe Geometry: Integration, Applications, Connections

Publisher: Glencoe/McGraw-Hill

Recommended by reviewers to State Textbook Commission as a basal textbook or program.

OTHER COMMENTS:

PUBLISHER'S EXPLANATION OF REVIEWERS' COMMENTS

(By action of the State Textbook Commission, publishers are being provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the written evaluation.)

Digital format:

-Glencoe's Interactive Student Edition CD-ROM was developed in Adobe Acrobat 5.0 for Windows with Search and Accessibility.

-Acrobat Reader 5.0 includes support for screen readers (accessibility) via the Microsoft Active Access API (MSAA).

-When online textbooks become available at www.mhln.com, the site will conform to Section 508 development standards.

STANDARDS FOR MATHEMATICS EVALUATION INSTRUMENT

Content/Process

1. **Material is comprehensive and includes content emphasized in Kentucky's Learning Goals and Academic Expectations and supported by the Core Content for Assessment, Program of Studies, and relevant National Standards.**

Rating: Strong
Comments:

2. **Content appears to be free from factual errors.**

Rating: Strong
Comments:

3. **Content makes connections to other content areas across the curriculum.**

Rating: Strong
Comments:

4. **Concepts and application of skills to real-life situations are introduced when appropriate.**

Rating: Strong
Comments:

5. **Content appears to be free of social, ethnic, racial, religious, gender, and geographic bias.**

Rating: Strong
Comments:

6. **Material is flexible and accommodates various learning styles, interest/ability levels, and intelligences, including adaptations and accommodations for students with special needs.**

Rating: Strong
Comments:

7. **Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.**

Rating: Strong
Comments:

8. **Content reflects research-based practices (e.g., hands-on activities, technology, problem-solving situations).**

Rating: Strong
Comments:

9. **Concepts are explored in depth and reinforced throughout.**

Rating: Strong
Comments:

Assessment

1. **Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

Rating: Strong
Comments:

2. **Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.**

Rating: Strong
Comments:

3. **Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.**

Rating: Strong
Comments:

4. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.
Rating: Strong
Comments:

5. Assessment activities provide opportunities for student integration of technology in the assessment process.
Rating: Strong
Comments:

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Rating: Strong
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Rating: Strong
Comments:

11. Assessment activities provide opportunities for student integration of technology in the assessment process.
Rating: Strong
Comments:

Glencoe Geometry: Integration, Applications, Connections

Publisher: Glencoe/McGraw-Hill

Organization and Structure

1. Organization is logical and allows for spiraling of content.
Rating: Strong
Comments:

2. Language is clear and concise with correct grammar and sentence structure.
Rating: Strong
Comments:

3. Vocabulary and key terms are clearly defined and easily accessible within each lesson.
Rating: Strong
Comments:

4. Visual illustrations (e.g., graphs, charts, models) and examples are clearly presented and content-related.
Rating: Strong
Comments:

5. Illustrations and language reflect diversity (e.g., racial, ethnic, cultural, age, gender, disabilities).
Rating: Strong
Comments:

6. Legible type, length of lines, spacing, page layout, and width of margins contribute to overall appearance and use.
Rating: Strong
Comments:

7. Student materials seem durable and conducive to daily student use (e.g., size, weight).
Rating: Strong
Comments:

8. Textbook includes appropriate and sufficient glossary, index, and appendices.
Rating: Strong
Comments:

9. Materials are organized into units of study (or similar structures) with daily lessons that include worthwhile, real-world tasks.

Rating: Strong
Comments:

10. Materials can be easily understood by students and parents.
Rating: Strong
Comments:

Student Experiences

1. The program emphasizes students *doing* mathematics rather than *memorizing* mathematics.
Rating: Strong
Comments:

2. Both group and individual activities are included.
Rating: Strong
Comments:

3. Materials and activities provide authentic applications that allow students to make meaningful connections across the curriculum, to real-world situations, and to interrelated mathematical concepts.
Rating: Strong
Comments:

4. Materials and activities encourage students to explore and investigate mathematical ideas through various problem-solving techniques.
Rating: Strong
Comments:

5. Materials and activities encourage students to read, write, and discuss mathematics.
Rating: Strong
Comments:

6. Materials and activities ask students to reflect upon, clarify, justify, and generalize their mathematical ideas.
Rating: Strong
Comments:

Technology

Glencoe Geometry: Integration, Applications, Connections

Publisher: Glencoe/McGraw-Hill

1. **In order for students to focus on decision-making, reflection, reasoning, and problem solving, instructional activities incorporate the use of technology (e.g. calculators, probes, computers) and include instructions on how to use the technology tools.**

Rating: Strong
Comments:

2. **Various forms of media are included (e.g., CDs, videos, computer software).**

Rating: Strong
Comments:

3. **Student materials are available online.**

Rating: Strong
Comments:

Resource Materials

1. **Teacher materials coordinate easily with student materials (e.g., additional resources included at point of need, student pages shown, manipulatives appropriate for indicated lesson, instructional technology indicated).**

Rating: Strong
Comments:

2. **Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.**

Rating: Strong
Comments:

3. **Extension activities including adaptations and accommodations for students with special needs.**

Rating: Strong
Comments:

4. **Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections within mathematics, and references (e.g., solutions manuals, study guides).**

Rating: Strong
Comments:

5. **Suggestions are made for integration of themes and/or interdisciplinary instruction.**

Rating: Strong

Comments:

6. Suggestions are made for family and community involvement and school/home communication.
Rating: Strong
Comments:

7. The included media are durable, easy to use, and have technical merit.
Rating: Strong
Comments:

8. Teacher resources are available online.
Rating: Strong
Comments:

Impact Mathematics: Algebra & More for the Middle Grades, Course 2

Publisher: Glencoe/McGraw-Hill

Evaluator Name(s): McGatha, Maggie Ney, Tricia

Content Level: Course 2

Overall Strengths and/or Weaknesses

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CONTENT/PROCESS
Strengths: Material is flexible and accommodates various learning styles with connections to real-life situations when applicable.
Weaknesses: Some of the Kentucky Program of Studies and Core Content for grade 7 is not adequately covered in course 2. It is covered in more detail in either grade 6 or 8 (course 1 or 3). (For example, relationships among radius, diameter, and circumference; fixed area and perimeter; areas of polygons; exterior, interior, and vertical angles; geometric transformations; theoretical and experimental probabilities; various mathematical properties.)

ASSESSMENT
Strengths: A variety of assessments allow students to demonstrate knowledge and skills in real-life situations.
Weaknesses: Integration of technology in the assessment process is not adequate in course 2.

ORGANIZATION AND STRUCTURE
Strengths: Organization is logical with clear and concise language.
Weaknesses: Integration among mathematical concepts and spiraling of content is not adequate in course 2. Text is not printed in 4-color and is not visually appealing.

STUDENT EXPERIENCES
Strengths: Problem solving investigations are included at the beginning of every chapter.
Weaknesses: Student opportunities for communication (oral, written, and verbal) appear to be supplemental in nature instead of a primary focus.

TECHNOLOGY
Strength: None observed.
Weaknesses: Overall integration of technology was not a strength in course 2. One CD-ROM is included for test preparation only.

RESOURCE MATERIALS
Strengths: Suggestions are provided for various learning styles and students with special needs.
Weaknesses: Integration of themes and interdisciplinary instruction are not adequately addressed.

If this material is available in digital format, KDE strongly recommends that it be considered if there are students in the school who have a need for this type of material. **Is Not Available in digital format**

Recommended by reviewers to State Textbook Commission as a basal textbook or program.

OTHER COMMENTS:

PUBLISHER'S EXPLANATION OF REVIEWERS' COMMENTS
(By action of the State Textbook Commission, publishers are being provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the written evaluation.)

STANDARDS FOR MATHEMATICS EVALUATION INSTRUMENT

Content/Process

1. **Material is comprehensive and includes content emphasized in Kentucky's Learning Goals and Academic Expectations and supported by the Core Content for Assessment, Program of Studies, and relevant National Standards.**

Rating: Weak
Comments: Some of the Kentucky Program of Studies and Core Content for grade 7 is not adequately covered in course 2. It is covered in more detail in either grade 6 or 8 (course 1 or 3). (For example, relationships among radius, diameter, and circumference; fixed area and perimeter; areas of polygons; exterior, interior, and vertical angles; geometric transformations; theoretical and experimental probabilities; varaious mathematical properties.)

2. **Content appears to be free from factual errors.**

Rating: Weak
Comments: Some of the Kentucky Program of Studies and Core Content for grade 7 is not adequately covered in course 2. It is covered in more detail in either grade 6 or 8 (course 1 or 3). (For example, relationships among radius, diameter, and circumference; fixed area and perimeter; areas of polygons; exterior, interior, and vertical angles; geometric transformations; theoretical and experimental probabilities; varaious mathematical properties.)

3. **Content makes connections to other content areas across the curriculum.**

Rating: Weak
Comments: Some of the Kentucky Program of Studies and Core Content for grade 7 is not adequately covered in course 2. It is covered in more detail in either grade 6 or 8 (course 1 or 3). (For example, relationships among radius, diameter, and circumference; fixed area and perimeter; areas of polygons; exterior, interior, and vertical angles; geometric transformations; theoretical and experimental probabilities; varaious mathematical properties.)

4. **Concepts and application of skills to real-life situations are introduced when appropriate.**

Rating: Weak
Comments: Some of the Kentucky Program of Studies and Core Content for grade 7 is not adequately covered in course 2. It is covered in more detail in either grade 6 or 8 (course 1 or 3). (For example, relationships among radius, diameter, and circumference;

fixed area and perimeter; areas of polygons; exterior, interior, and vertical angles; geometric transformations; theoretical and experimental probabilities; varaious mathematical properties.)

5. Content appears to be free of social, ethnic, racial, religious, gender, and geographic bias.
Rating: Weak
Comments: Some of the Kentucky Program of Studies and Core Content for grade 7 is not adequately covered in course 2. It is covered in more detail in either grade 6 or 8 (course 1 or 3). (For example, relationships among radius, diameter, and circumference; fixed area and perimeter; areas of polygons; exterior, interior, and vertical angles; geometric transformations; theoretical and experimental probabilities; varaious mathematical properties.)

6. Material is flexible and accommodates various learning styles, interest/ability levels, and intelligences, including adaptations and accommodations for students with special needs.
Rating: Weak
Comments: Some of the Kentucky Program of Studies and Core Content for grade 7 is not adequately covered in course 2. It is covered in more detail in either grade 6 or 8 (course 1 or 3). (For example, relationships among radius, diameter, and circumference; fixed area and perimeter; areas of polygons; exterior, interior, and vertical angles; geometric transformations; theoretical and experimental probabilities; varaious mathematical properties.)

7. Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.
Rating: Weak
Comments: Some of the Kentucky Program of Studies and Core Content for grade 7 is not adequately covered in course 2. It is covered in more detail in either grade 6 or 8 (course 1 or 3). (For example, relationships among radius, diameter, and circumference; fixed area and perimeter; areas of polygons; exterior, interior, and vertical angles; geometric transformations; theoretical and experimental probabilities; varaious mathematical properties.)

8. Content reflects research-based practices (e.g., hands-on activities, technology, problem-solving situations).
Rating: Weak
Comments: Some of the Kentucky Program of Studies and Core Content for grade 7 is not adequately covered in course 2. It is covered in more detail in either grade 6 or 8 (course 1 or 3). (For example, relationships among radius, diameter, and circumference; fixed area and perimeter; areas of polygons; exterior, interior, and vertical angles; geometric transformations; theoretical and experimental probabilities; varaious mathematical properties.)

9. Concepts are explored in depth and reinforced throughout.
Rating: Weak
Comments: Some of the Kentucky Program of Studies and Core Content for grade 7 is not adequately covered in course 2. It is covered in more detail in either grade 6 or 8 (course 1 or 3). (For example, relationships among radius, diameter, and circumference;

fixed area and perimeter; areas of polygons; exterior, interior, and vertical angles; geometric transformations; theoretical and experimental probabilities; varaious mathematical properties.)

Assessment

1. **Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

Rating: Strong
Comments:

2. **Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.**

Rating: Strong
Comments:

3. **Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.**

Rating: Strong
Comments:

4. **A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**

Rating: Strong
Comments:

5. **Assessment activities provide opportunities for student integration of technology in the assessment process.**

Rating: Strong
Comments:

6. **Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

Rating: Strong
Comments:

7. **Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

Rating: Strong
Comments:

8. **Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.**

Rating: Strong
Comments:

9. **Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.**

Rating: Strong
Comments:

10. **A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**

Rating: Strong
Comments:

11. **Assessment activities provide opportunities for student integration of technology in the assessment process.**

Rating: Strong
Comments:

Organization and Structure

1. **Organization is logical and allows for spiraling of content.**

Rating: Adequate
Comments:

2. **Language is clear and concise with correct grammar and sentence structure.**

Rating: Adequate
Comments:

3. **Vocabulary and key terms are clearly defined and easily accessible within each lesson.**

Rating: Adequate
Comments:

4. **Visual illustrations (e.g., graphs, charts, models) and examples are clearly presented and content-related.**

Rating: Adequate
Comments:

5. Illustrations and language reflect diversity (e.g., racial, ethnic, cultural, age, gender, disabilities).
Rating: Adequate
Comments:

6. Legible type, length of lines, spacing, page layout, and width of margins contribute to overall appearance and use.
Rating: Adequate
Comments:

7. Student materials seem durable and conducive to daily student use (e.g., size, weight).
Rating: Adequate
Comments:

8. Textbook includes appropriate and sufficient glossary, index, and appendices.
Rating: Adequate
Comments:

9. Materials are organized into units of study (or similar structures) with daily lessons that include worthwhile, real-world tasks.
Rating: Adequate
Comments:

10. Materials can be easily understood by students and parents.
Rating: Adequate
Comments:

Student Experiences

1. The program emphasizes students *doing* mathematics rather than *memorizing* mathematics.
Rating: Adequate
Comments:

2. Both group and individual activities are included.
Rating: Adequate
Comments:

3. **Materials and activities provide authentic applications that allow students to make meaningful connections across the curriculum, to real-world situations, and to interrelated mathematical concepts.**

Rating: Adequate
Comments:

4. **Materials and activities encourage students to explore and investigate mathematical ideas through various problem-solving techniques.**

Rating: Adequate
Comments:

5. **Materials and activities encourage students to read, write, and discuss mathematics.**

Rating: Adequate
Comments:

6. **Materials and activities ask students to reflect upon, clarify, justify, and generalize their mathematical ideas.**

Rating: Adequate
Comments:

Technology

1. **In order for students to focus on decision-making, reflection, reasoning, and problem solving, instructional activities incorporate the use of technology (e.g. calculators, probes, computers) and include instructions on how to use the technology tools.**

Rating: Weak
Comments:

2. **Various forms of media are included (e.g., CDs, videos, computer software).**

Rating: Weak
Comments:

3. **Student materials are available online.**

Rating: Weak
Comments:

Resource Materials

Impact Mathematics: Algebra & More for the Middle Grades, Course 2

Publisher: Glencoe/McGraw-Hill

1. **Teacher materials coordinate easily with student materials (e.g., additional resources included at point of need, student pages shown, manipulatives appropriate for indicated lesson, instructional technology indicated).**

Rating: Strong
Comments:

2. **Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.**

Rating: Strong
Comments:

3. **Extension activities including adaptations and accommodations for students with special needs.**

Rating: Strong
Comments:

4. **Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections within mathematics, and references (e.g., solutions manuals, study guides).**

Rating: Strong
Comments:

5. **Suggestions are made for integration of themes and/or interdisciplinary instruction.**

Rating: Strong
Comments:

6. **Suggestions are made for family and community involvement and school/home communication.**

Rating: Strong
Comments:

7. **The included media are durable, easy to use, and have technical merit.**

Rating: Strong
Comments:

8. **Teacher resources are available online.**

Rating: Strong
Comments:

Impact Mathematics: Algebra & More for the Middle Grades, Course 3

Publisher: Glencoe/McGraw-Hill

Evaluator Name(s): McGatha, Maggie Ney, Tricia

Content Level: Course 3

Overall Strengths and/or Weaknesses

Disclaimer: Comments on the strengths and/or weaknesses of each book or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions. They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/Instructional Materials Review team completed each evaluation form during the week of July 8-12, 2002. In order to maintain the integrity of the review team's comments, editing was limited to spelling and punctuation.

CONTENT/PROCESS

Strengths: Material is flexible and accommodates various learning styles with connections to real-life situations when applicable.

Weaknesses: Some of the Kentucky Program of Studies and Core Content for grade 8 is not adequately covered in course 3. It is covered in more detail in either grade 6 or 7 (course 1 or 2). (For example, volume of cylinders and cube; surface area of cylinder, prisms, and solids; consumer applications of percentages and proportions; discover and apply the Pythagorean Theorem; derive distance/time formulas; collect, organize, analyze, and interpret circle graphs, box and whisker plots; select appropriate graphs; compare data from various graphs; randomness and independent events; theoretical and experimental probabilities; determine and interpret clusters, quartiles, gaps and outliers.)

ASSESSMENT

Strengths: A variety of assessments allow students to demonstrate knowledge and skills in real-life situations.

Weaknesses: Integration of technology in the assessment process is not adequate in course 3.

ORGANIZATION AND STRUCTURE

Strengths: Organization is logical with clear and concise language.

Weaknesses: Integration among mathematical concepts and spiraling of content is not adequate in course 3. Text is not printed in 4-color and is not visually appealing.

STUDENT EXPERIENCES

Strengths: Problem solving investigations are included at the beginning of every chapter.

Weaknesses: Student opportunities for communication (oral, written, and verbal) appear to be supplemental in nature instead of a primary focus.

TECHNOLOGY

Strength: Instructions for how to use graphing calculators are included.

Weaknesses: Overall integration of technology was not a strength in course 3 (graphing calculators were included). One CD-ROM is included for test preparation only.

RESOURCE MATERIALS

Strengths: Suggestions are provided for various learning styles and students with special needs.

Weaknesses: Integration of themes and interdisciplinary instruction are not adequately addressed.

If this material is available in digital format, KDE strongly recommends that it be considered if there are students in the school who have a need for this type of material. **Is Not Available in digital format**

Impact Mathematics: Algebra & More for the Middle Grades, Course 3

Publisher: Glencoe/McGraw-Hill

Recommended by reviewers to State Textbook Commission as a basal textbook or program.

OTHER COMMENTS:

PUBLISHER'S EXPLANATION OF REVIEWERS' COMMENTS

(By action of the State Textbook Commission, publishers are being provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the written evaluation.)

STANDARDS FOR MATHEMATICS EVALUATION INSTRUMENT

Content/Process

1. **Material is comprehensive and includes content emphasized in Kentucky's Learning Goals and Academic Expectations and supported by the Core Content for Assessment, Program of Studies, and relevant National Standards.**

Rating: Weak

Comments: Some of the Kentucky Program of Studies and Core Content for grade 8 is not adequately covered in course 3. It is covered in more detail in either grade 6 or 7 (course 1 or 2). (For example, volume of cylinders and cube; surface area of cylinder, prisms, and solids; consumer applications of percentages and proportions; discover and apply the Pythagorean Theorem; derive distance/time formulas; collect, organize, analyze, and interpret circle graphs, box and whisker plots; select appropriate graphs; compare data from various graphs; randomness and independent events; theoretical and experimental probabilities; determine and interpret clusters, quartiles, gaps and outliers)

2. **Content appears to be free from factual errors.**

Rating: Weak

Comments: Some of the Kentucky Program of Studies and Core Content for grade 8 is not adequately covered in course 3. It is covered in more detail in either grade 6 or 7 (course 1 or 2). (For example, volume of cylinders and cube; surface area of cylinder, prisms, and solids; consumer applications of percentages and proportions; discover and apply the Pythagorean Theorem; derive distance/time formulas; collect, organize, analyze, and interpret circle graphs, box and whisker plots; select appropriate graphs; compare data from various graphs; randomness and independent events; theoretical and experimental probabilities; determine and interpret clusters, quartiles, gaps and outliers)

3. **Content makes connections to other content areas across the curriculum.**

Rating: Weak

Comments: Some of the Kentucky Program of Studies and Core Content for grade 8 is not adequately covered in course 3. It is covered in more detail in either grade 6 or 7 (course 1 or 2). (For example, volume of cylinders and cube; surface area of cylinder, prisms, and solids; consumer applications of percentages and proportions; discover and apply the Pythagorean Theorem; derive

distance/time formulas; collect, organize, analyze, and interpret circle graphs, box and whisker plots; select appropriate graphs; compare data from various graphs; randomness and independent events; theoretical and experimental probabilities; determine and interpret clusters, quartiles, gaps and outliers)

4. Concepts and application of skills to real-life situations are introduced when appropriate.
Rating: Weak
Comments: Some of the Kentucky Program of Studies and Core Content for grade 8 is not adequately covered in course 3. It is covered in more detail in either grade 6 or 7 (course 1 or 2). (For example, volume of cylinders and cube; surface area of cylinder, prisms, and solids; consumer applications of percentages and proportions; discover and apply the Pythagorean Theorem; derive distance/time formulas; collect, organize, analyze, and interpret circle graphs, box and whisker plots; select appropriate graphs; compare data from various graphs; randomness and independent events; theoretical and experimental probabilities; determine and interpret clusters, quartiles, gaps and outliers)

5. Content appears to be free of social, ethnic, racial, religious, gender, and geographic bias.
Rating: Weak
Comments: Some of the Kentucky Program of Studies and Core Content for grade 8 is not adequately covered in course 3. It is covered in more detail in either grade 6 or 7 (course 1 or 2). (For example, volume of cylinders and cube; surface area of cylinder, prisms, and solids; consumer applications of percentages and proportions; discover and apply the Pythagorean Theorem; derive distance/time formulas; collect, organize, analyze, and interpret circle graphs, box and whisker plots; select appropriate graphs; compare data from various graphs; randomness and independent events; theoretical and experimental probabilities; determine and interpret clusters, quartiles, gaps and outliers)

6. Material is flexible and accommodates various learning styles, interest/ability levels, and intelligences, including adaptations and accommodations for students with special needs.
Rating: Weak
Comments: Some of the Kentucky Program of Studies and Core Content for grade 8 is not adequately covered in course 3. It is covered in more detail in either grade 6 or 7 (course 1 or 2). (For example, volume of cylinders and cube; surface area of cylinder, prisms, and solids; consumer applications of percentages and proportions; discover and apply the Pythagorean Theorem; derive distance/time formulas; collect, organize, analyze, and interpret circle graphs, box and whisker plots; select appropriate graphs; compare data from various graphs; randomness and independent events; theoretical and experimental probabilities; determine and interpret clusters, quartiles, gaps and outliers)

7. Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.
Rating: Weak
Comments: Some of the Kentucky Program of Studies and Core Content for grade 8 is not adequately covered in course 3. It is covered in more detail in either grade 6 or 7 (course 1 or 2). (For example, volume of cylinders and cube; surface area of cylinder,

prisms, and solids; consumer applications of percentages and proportions; discover and apply the Pythagorean Theorem; derive distance/time formulas; collect, organize, analyze, and interpret circle graphs, box and whisker plots; select appropriate graphs; compare data from various graphs; randomness and independent events; theoretical and experimental probabilities; determine and interpret clusters, quartiles, gaps and outliers)

8. Content reflects research-based practices (e.g., hands-on activities, technology, problem-solving situations).
Rating: Weak
Comments: Some of the Kentucky Program of Studies and Core Content for grade 8 is not adequately covered in course 3. It is covered in more detail in either grade 6 or 7 (course 1 or 2). (For example, volume of cylinders and cube; surface area of cylinder, prisms, and solids; consumer applications of percentages and proportions; discover and apply the Pythagorean Theorem; derive distance/time formulas; collect, organize, analyze, and interpret circle graphs, box and whisker plots; select appropriate graphs; compare data from various graphs; randomness and independent events; theoretical and experimental probabilities; determine and interpret clusters, quartiles, gaps and outliers)

9. Concepts are explored in depth and reinforced throughout.
Rating: Weak
Comments: Some of the Kentucky Program of Studies and Core Content for grade 8 is not adequately covered in course 3. It is covered in more detail in either grade 6 or 7 (course 1 or 2). (For example, volume of cylinders and cube; surface area of cylinder, prisms, and solids; consumer applications of percentages and proportions; discover and apply the Pythagorean Theorem; derive distance/time formulas; collect, organize, analyze, and interpret circle graphs, box and whisker plots; select appropriate graphs; compare data from various graphs; randomness and independent events; theoretical and experimental probabilities; determine and interpret clusters, quartiles, gaps and outliers)

Assessment

1. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.
Rating: Strong
Comments:

2. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.
Rating: Strong
Comments:

3. Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.

Rating: Strong
Comments:

4. **A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**

Rating: Strong
Comments:

5. **Assessment activities provide opportunities for student integration of technology in the assessment process.**

Rating: Strong
Comments:

6. **Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

Rating: Strong
Comments:

7. **Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

Rating: Strong
Comments:

8. **Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.**

Rating: Strong
Comments:

9. **Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.**

Rating: Strong
Comments:

10. **A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**

Rating: Strong
Comments:

11. **Assessment activities provide opportunities for student integration of technology in the assessment process.**

Impact Mathematics: Algebra & More for the Middle Grades, Course 3

Publisher: Glencoe/McGraw-Hill

Rating: Strong
Comments:

Organization and Structure

1. Organization is logical and allows for spiraling of content.
Rating: Adequate
Comments:

2. Language is clear and concise with correct grammar and sentence structure.
Rating: Adequate
Comments:

3. Vocabulary and key terms are clearly defined and easily accessible within each lesson.
Rating: Adequate
Comments:

4. Visual illustrations (e.g., graphs, charts, models) and examples are clearly presented and content-related.
Rating: Adequate
Comments:

5. Illustrations and language reflect diversity (e.g., racial, ethnic, cultural, age, gender, disabilities).
Rating: Adequate
Comments:

6. Legible type, length of lines, spacing, page layout, and width of margins contribute to overall appearance and use.
Rating: Adequate
Comments:

7. Student materials seem durable and conducive to daily student use (e.g., size, weight).
Rating: Adequate
Comments:

8. Textbook includes appropriate and sufficient glossary, index, and appendices.
Rating: Adequate
Comments:

9. Materials are organized into units of study (or similar structures) with daily lessons that include worthwhile, real-world tasks.
Rating: Adequate
Comments:

10. Materials can be easily understood by students and parents.
Rating: Adequate
Comments:

Student Experiences

1. The program emphasizes students *doing* mathematics rather than *memorizing* mathematics.
Rating: Adequate
Comments:

2. Both group and individual activities are included.
Rating: Adequate
Comments:

3. Materials and activities provide authentic applications that allow students to make meaningful connections across the curriculum, to real-world situations, and to interrelated mathematical concepts.
Rating: Adequate
Comments:

4. Materials and activities encourage students to explore and investigate mathematical ideas through various problem-solving techniques.
Rating: Adequate
Comments:

5. Materials and activities encourage students to read, write, and discuss mathematics.
Rating: Adequate
Comments:

6. Materials and activities ask students to reflect upon, clarify, justify, and generalize their mathematical ideas.
Rating: Adequate

Comments:

Technology

1. **In order for students to focus on decision-making, reflection, reasoning, and problem solving, instructional activities incorporate the use of technology (e.g. calculators, probes, computers) and include instructions on how to use the technology tools.**

Rating: Weak
Comments:

2. **Various forms of media are included (e.g., CDs, videos, computer software).**

Rating: Weak
Comments:

3. **Student materials are available online.**

Rating: Weak
Comments:

Resource Materials

1. **Teacher materials coordinate easily with student materials (e.g., additional resources included at point of need, student pages shown, manipulatives appropriate for indicated lesson, instructional technology indicated).**

Rating: Strong
Comments:

2. **Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.**

Rating: Strong
Comments:

3. **Extension activities including adaptations and accommodations for students with special needs.**

Rating: Strong
Comments:

4. **Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections within mathematics, and references (e.g., solutions manuals, study guides).**

Rating: Strong
Comments:

5. Suggestions are made for integration of themes and/or interdisciplinary instruction.
Rating: Strong
Comments:

6. Suggestions are made for family and community involvement and school/home communication.
Rating: Strong
Comments:

7. The included media are durable, easy to use, and have technical merit.
Rating: Strong
Comments:

8. Teacher resources are available online.
Rating: Strong
Comments:

Impact Mathematics: Algebra & More for the Middle Grades, Course 1

Publisher: Glencoe/McGraw-Hill

Evaluator Name(s): McGatha, Maggie Ney, Tricia Lindsey, Janet Dunn, Kember

Content Level: Course 1

Overall Strengths and/or Weaknesses

Disclaimer: Comments on the strengths and/or weaknesses of each book or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions. They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/Instructional Materials Review team completed each evaluation form during the week of July 8-12, 2002. In order to maintain the integrity of the review team's comments, editing was limited to spelling and punctuation.

CONTENT/PROCESS
Strengths: Material is flexible and accommodates various learning styles with connections to real-life situations when applicable.
Weaknesses: Some of the Kentucky Program of Studies and Core Content for grade 6 is not adequately covered in course 1. It is covered in more detail in either grade 7 or 8 (course 2 or 3). (For example, ratio, various mathematical properties, volume, and counting technique)

ASSESSMENT
Strengths: A variety of assessments allow students to demonstrate knowledge and skills in real-life situations.
Weaknesses: Integration of technology in the assessment process is not adequate in course 1.

ORGANIZATION AND STRUCTURE
Strengths: Organization is logical with clear and concise language.
Weaknesses: Integration among mathematical concepts and spiraling of content is not adequate in course 1. Text is not printed in 4-color and is not visually appealing.

STUDENT EXPERIENCES
Strengths: Problem solving investigations are included at the beginning of every chapter.
Weaknesses: Student opportunities for communication (oral, written, and verbal) appear to be supplemental in nature instead of a primary focus.

TECHNOLOGY
Strength: Instructions for how to use calculators are included for a small number of topics: fractions, square root, random number generator.
Weaknesses: Overall integration of technology was not a strength in course 1.

RESOURCE MATERIALS
Strengths: Suggestions are provided for various learning styles and students with special needs.
Weaknesses: Integration of themes and interdisciplinary instruction are not adequately addressed.

If this material is available in digital format, KDE strongly recommends that it be considered if there are students in the school who have a need for this type of material. **Is Not Available in digital format**

Recommended by reviewers to State Textbook Commission as a basal textbook or program.

OTHER COMMENTS:

PUBLISHER'S EXPLANATION OF REVIEWERS' COMMENTS
(By action of the State Textbook Commission, publishers are being provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the written evaluation.)

STANDARDS FOR MATHEMATICS EVALUATION INSTRUMENT

Content/Process

1. **Material is comprehensive and includes content emphasized in Kentucky's Learning Goals and Academic Expectations and supported by the Core Content for Assessment, Program of Studies, and relevant National Standards.**

Rating: Adequate
Comments:

2. **Content appears to be free from factual errors.**

Rating: Adequate
Comments:

3. **Content makes connections to other content areas across the curriculum.**

Rating: Adequate
Comments:

4. **Concepts and application of skills to real-life situations are introduced when appropriate.**

Rating: Adequate
Comments:

5. **Content appears to be free of social, ethnic, racial, religious, gender, and geographic bias.**

Rating: Adequate
Comments:

6. **Material is flexible and accommodates various learning styles, interest/ability levels, and intelligences, including adaptations and accommodations for students with special needs.**

Rating: Adequate
Comments:

7. Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.
Rating: Adequate
Comments:

8. Content reflects research-based practices (e.g., hands-on activities, technology, problem-solving situations).
Rating: Adequate
Comments:

9. Concepts are explored in depth and reinforced throughout.
Rating: Adequate
Comments:

Assessment

1. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.
Rating: Strong
Comments:

2. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.
Rating: Strong
Comments:

3. Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.
Rating: Strong
Comments:

4. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.
Rating: Strong
Comments:

5. Assessment activities provide opportunities for student integration of technology in the assessment process.
Rating: Strong
Comments:

6. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.
Rating: Strong
Comments:

7. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.
Rating: Strong
Comments:

8. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.
Rating: Strong
Comments:

9. Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.
Rating: Strong
Comments:

10. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.
Rating: Strong
Comments:

11. Assessment activities provide opportunities for student integration of technology in the assessment process.
Rating: Strong
Comments:

Organization and Structure

1. Organization is logical and allows for spiraling of content.
Rating: Adequate
Comments:

2. Language is clear and concise with correct grammar and sentence structure.
Rating: Adequate

Comments:

3. Vocabulary and key terms are clearly defined and easily accessible within each lesson.
Rating: Adequate
Comments:

4. Visual illustrations (e.g., graphs, charts, models) and examples are clearly presented and content-related.
Rating: Adequate
Comments:

5. Illustrations and language reflect diversity (e.g., racial, ethnic, cultural, age, gender, disabilities).
Rating: Adequate
Comments:

6. Legible type, length of lines, spacing, page layout, and width of margins contribute to overall appearance and use.
Rating: Adequate
Comments:

7. Student materials seem durable and conducive to daily student use (e.g., size, weight).
Rating: Adequate
Comments:

8. Textbook includes appropriate and sufficient glossary, index, and appendices.
Rating: Adequate
Comments:

9. Materials are organized into units of study (or similar structures) with daily lessons that include worthwhile, real-world tasks.
Rating: Adequate
Comments:

10. Materials can be easily understood by students and parents.
Rating: Adequate
Comments:

Impact Mathematics: Algebra & More for the Middle Grades, Course 1

Publisher: Glencoe/McGraw-Hill

Student Experiences

1. The program emphasizes students *doing* mathematics rather than *memorizing* mathematics.
Rating: Adequate
Comments:

2. Both group and individual activities are included.
Rating: Adequate
Comments:

3. Materials and activities provide authentic applications that allow students to make meaningful connections across the curriculum, to real-world situations, and to interrelated mathematical concepts.
Rating: Adequate
Comments:

4. Materials and activities encourage students to explore and investigate mathematical ideas through various problem-solving techniques.
Rating: Adequate
Comments:

5. Materials and activities encourage students to read, write, and discuss mathematics.
Rating: Adequate
Comments:

6. Materials and activities ask students to reflect upon, clarify, justify, and generalize their mathematical ideas.
Rating: Adequate
Comments:

Technology

1. In order for students to focus on decision-making, reflection, reasoning, and problem solving, instructional activities incorporate the use of technology (e.g. calculators, probes, computers) and include instructions on how to use the technology tools.
Rating: Weak
Comments:

2. Various forms of media are included (e.g., CDs, videos, computer software).

Rating: Weak
Comments:

3. Student materials are available online.
Rating: Weak
Comments:

Resource Materials

1. Teacher materials coordinate easily with student materials (e.g., additional resources included at point of need, student pages shown, manipulatives appropriate for indicated lesson, instructional technology indicated).
Rating: Strong
Comments:

2. Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.
Rating: Strong
Comments:

3. Extension activities including adaptations and accommodations for students with special needs.
Rating: Strong
Comments:

4. Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections within mathematics, and references (e.g., solutions manuals, study guides).
Rating: Strong
Comments:

5. Suggestions are made for integration of themes and/or interdisciplinary instruction.
Rating: Strong
Comments:

6. Suggestions are made for family and community involvement and school/home communication.
Rating: Strong
Comments:

7. The included media are durable, easy to use, and have technical merit.

Rating: Strong
Comments:

8. Teacher resources are available online.
Rating: Strong
Comments:

Mathematics Applications and Connections Course 2

Publisher: Glencoe/McGraw-Hill

Evaluator Name(s): McNew, Melinda Wilson, Kellie

Content Level: 2

Overall Strengths and/or Weaknesses

Disclaimer: Comments on the strengths and/or weaknesses of each book or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions. They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/Instructional Materials Review team completed each evaluation form during the week of July 8-12, 2002. In order to maintain the integrity of the review team's comments, editing was limited to spelling and punctuation.

CONTENT/PROCESS

Strengths: Kentucky's Core Content and Program of Studies were deeply embedded throughout the text. Especially noteworthy are the mini-labs that are practical for teachers and address core content. We also were impressed by how various learning styles were addressed through the different levels of assessment provided.

Weaknesses: No weaknesses were noted.

ASSESSMENT

Strengths: A variety of assessment tools were provided which were directly linked to learning activities.

Weaknesses: There did not appear to be a lot of assessment questions in the CATS open response format.

ORGANIZATION AND STRUCTURE

Strengths: The textbook had logical organization with strong visual examples. It also provided daily worthwhile tasks.

Weaknesses: No weaknesses were noted.

STUDENT EXPERIENCES

Strengths: Textbook emphasized doing instead of memorizing through mini-labs. These mini-labs keep students active and involved. The "What will I learn?" and "When will I use this?" questions help guide the students through each lesson.

Weaknesses: No weaknesses were noted.

TECHNOLOGY

Strength: Various forms of media are included for both student and teacher use. There are student activities involving technology embedded in the textbook.

Weaknesses: No weaknesses were noted.

RESOURCE MATERIALS

Strengths: Teacher materials coordinate easily with student materials. Activities address various learning styles and interest/ability levels.

Weaknesses: The resource materials provide activities for integration of both science and careers, but other subjects did not appear to be addressed as explicitly. We did note connections to other content areas within the student text for some chapters in an Integration Activity section.

If this material is available in digital format, KDE strongly recommends that it be considered if there are students in the school who have a need for this type of material. **Is Not Available in digital format**

Mathematics Applications and Connections Course 2

Publisher: Glencoe/McGraw-Hill

Recommended by reviewers to State Textbook Commission as a basal textbook or program.

OTHER COMMENTS:

PUBLISHER'S EXPLANATION OF REVIEWERS' COMMENTS

(By action of the State Textbook Commission, publishers are being provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the written evaluation.)

STANDARDS FOR MATHEMATICS EVALUATION INSTRUMENT

Content/Process

1. **Material is comprehensive and includes content emphasized in Kentucky's Learning Goals and Academic Expectations and supported by the Core Content for Assessment, Program of Studies, and relevant National Standards.**

Rating: Strong
Comments: Mini-labs are very useful for hands-on, real world application and practical for real classroom use.

2. **Content appears to be free from factual errors.**

Rating: Strong
Comments: Mini-labs are very useful for hands-on, real world application and practical for real classroom use.

3. **Content makes connections to other content areas across the curriculum.**

Rating: Strong
Comments: Mini-labs are very useful for hands-on, real world application and practical for real classroom use.

4. **Concepts and application of skills to real-life situations are introduced when appropriate.**

Rating: Strong
Comments: Mini-labs are very useful for hands-on, real world application and practical for real classroom use.

5. **Content appears to be free of social, ethnic, racial, religious, gender, and geographic bias.**

Rating: Strong
Comments: Mini-labs are very useful for hands-on, real world application and practical for real classroom use.

6. **Material is flexible and accommodates various learning styles, interest/ability levels, and intelligences, including adaptations and accommodations for students with special needs.**

Rating: Strong
Comments: Mini-labs are very useful for hands-on, real world application and practical for real classroom use.

7. Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.
Rating: Strong
Comments: Mini-labs are very useful for hands-on, real world application and practical for real classroom use.

8. Content reflects research-based practices (e.g., hands-on activities, technology, problem-solving situations).
Rating: Strong
Comments: Mini-labs are very useful for hands-on, real world application and practical for real classroom use.

9. Concepts are explored in depth and reinforced throughout.
Rating: Strong
Comments: Mini-labs are very useful for hands-on, real world application and practical for real classroom use.

Assessment

1. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.
Rating: Strong
Comments:

2. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.
Rating: Strong
Comments:

3. Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.
Rating: Strong
Comments:

4. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.
Rating: Strong
Comments:

5. Assessment activities provide opportunities for student integration of technology in the assessment process.
Rating: Strong

Comments:

6. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.
Rating: Strong
Comments:

7. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.
Rating: Strong
Comments:

8. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.
Rating: Strong
Comments:

9. Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.
Rating: Strong
Comments:

10. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.
Rating: Strong
Comments:

11. Assessment activities provide opportunities for student integration of technology in the assessment process.
Rating: Strong
Comments:

Organization and Structure

1. Organization is logical and allows for spiraling of content.
Rating: Strong
Comments:

2. Language is clear and concise with correct grammar and sentence structure.

Rating: Strong
Comments:

3. Vocabulary and key terms are clearly defined and easily accessible within each lesson.
Rating: Strong
Comments:

4. Visual illustrations (e.g., graphs, charts, models) and examples are clearly presented and content-related.
Rating: Strong
Comments:

5. Illustrations and language reflect diversity (e.g., racial, ethnic, cultural, age, gender, disabilities).
Rating: Strong
Comments:

6. Legible type, length of lines, spacing, page layout, and width of margins contribute to overall appearance and use.
Rating: Strong
Comments:

7. Student materials seem durable and conducive to daily student use (e.g., size, weight).
Rating: Strong
Comments:

8. Textbook includes appropriate and sufficient glossary, index, and appendices.
Rating: Strong
Comments:

9. Materials are organized into units of study (or similar structures) with daily lessons that include worthwhile, real-world tasks.
Rating: Strong
Comments:

10. Materials can be easily understood by students and parents.
Rating: Strong
Comments:

Mathematics Applications and Connections Course 2

Publisher: Glencoe/McGraw-Hill

Student Experiences

1. The program emphasizes students *doing* mathematics rather than *memorizing* mathematics.
Rating: Strong
Comments: Mini-labs keep students active and involved with content.

2. Both group and individual activities are included.
Rating: Strong
Comments: Mini-labs keep students active and involved with content.

3. Materials and activities provide authentic applications that allow students to make meaningful connections across the curriculum, to real-world situations, and to interrelated mathematical concepts.
Rating: Strong
Comments: Mini-labs keep students active and involved with content.

4. Materials and activities encourage students to explore and investigate mathematical ideas through various problem-solving techniques.
Rating: Strong
Comments: Mini-labs keep students active and involved with content.

5. Materials and activities encourage students to read, write, and discuss mathematics.
Rating: Strong
Comments: Mini-labs keep students active and involved with content.

6. Materials and activities ask students to reflect upon, clarify, justify, and generalize their mathematical ideas.
Rating: Strong
Comments: Mini-labs keep students active and involved with content.

Technology

1. In order for students to focus on decision-making, reflection, reasoning, and problem solving, instructional activities incorporate the use of technology (e.g. calculators, probes, computers) and include instructions on how to use the technology tools.
Rating: Strong
Comments:

2. Various forms of media are included (e.g., CDs, videos, computer software).

Rating: Strong
Comments:

3. Student materials are available online.
Rating: Strong
Comments:

Resource Materials

1. Teacher materials coordinate easily with student materials (e.g., additional resources included at point of need, student pages shown, manipulatives appropriate for indicated lesson, instructional technology indicated).
Rating: Strong
Comments:

2. Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.
Rating: Strong
Comments:

3. Extension activities including adaptations and accommodations for students with special needs.
Rating: Strong
Comments:

4. Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections within mathematics, and references (e.g., solutions manuals, study guides).
Rating: Strong
Comments:

5. Suggestions are made for integration of themes and/or interdisciplinary instruction.
Rating: Strong
Comments:

6. Suggestions are made for family and community involvement and school/home communication.
Rating: Strong
Comments:

7. The included media are durable, easy to use, and have technical merit.

Rating: Strong
Comments:

8. Teacher resources are available online.
Rating: Strong
Comments:

Mathematics Applications and Connections Course 3

Publisher: Glencoe/McGraw-Hill

Evaluator Name(s): McNew, Melinda Wilson, Kellie

Content Level: 3

Overall Strengths and/or Weaknesses

Disclaimer: Comments on the strengths and/or weaknesses of each book or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions. They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/Instructional Materials Review team completed each evaluation form during the week of July 8-12, 2002. In order to maintain the integrity of the review team's comments, editing was limited to spelling and punctuation.

CONTENT/PROCESS

Strengths: Kentucky's Core Content and Program of Studies were deeply embedded throughout the text. Especially noteworthy are the mini-labs that are practical for teachers and address core content. We noticed a distinct difference in the content of Course 3 when compared to previous courses in the series. Student were required to apply prior learning rather than just review previous concepts.

Weaknesses: No weaknesses were noted.

ASSESSMENT

Strengths: A variety of assessment tools were provided which linked to learning activities. The assessments provided ways to differentiate among student ability levels.

Weaknesses: In the materials we reviewed, there was limited use of open response type questions that students might see on the CATS assessment. There is a resource mentioned in the gratis list titled "KY CATS Math Practice and Sample Workbook".

ORGANIZATION AND STRUCTURE

Strengths: The textbook had logical organization with strong visual examples. The tasks provided for students were worthwhile and real life.

Weaknesses: No weaknesses were noted.

STUDENT EXPERIENCES

Strengths: The textbook emphasized doing instead of memorizing through mini-labs which keeps students active and involved. The "What will I learn" and "When will I use this" questions will help guide the students through various learning experiences.

Weaknesses: No weaknesses were noted.

TECHNOLOGY

Strength: Various forms of media are included for both student and teacher use. There are student activities involving technology imbedded in the text book.

Weaknesses: No weaknesses noted.

RESOURCE MATERIALS

Strengths: Teacher materials coordinate easily with student materials. Activities address various learning styles and interest/ability levels.

Weaknesses: The resource materials provide activities for integration of both science and careers, but other subjects do not appear to be covered as much. We did notice that integration activities are provided throughout the student text at the beginning of various chapters.

If this material is available in digital format, KDE strongly recommends that it be considered if there are students in the school who have a need for this type of material. **Is Not Available in digital format**

Mathematics Applications and Connections Course 3

Publisher: Glencoe/McGraw-Hill

Recommended by reviewers to State Textbook Commission as a basal textbook or program.

OTHER COMMENTS:

PUBLISHER'S EXPLANATION OF REVIEWERS' COMMENTS

(By action of the State Textbook Commission, publishers are being provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the written evaluation.)

STANDARDS FOR MATHEMATICS EVALUATION INSTRUMENT

Content/Process

1. **Material is comprehensive and includes content emphasized in Kentucky's Learning Goals and Academic Expectations and supported by the Core Content for Assessment, Program of Studies, and relevant National Standards.**

Rating: Strong

Comments: Kentucky Core Content and Program of Studies for the 8th grade is covered well. Mini-labs provide opportunity for students to apply and explore content. These labs are practical for classroom use.

2. **Content appears to be free from factual errors.**

Rating: Strong

Comments: Kentucky Core Content and Program of Studies for the 8th grade is covered well. Mini-labs provide opportunity for students to apply and explore content. These labs are practical for classroom use.

3. **Content makes connections to other content areas across the curriculum.**

Rating: Strong

Comments: Kentucky Core Content and Program of Studies for the 8th grade is covered well. Mini-labs provide opportunity for students to apply and explore content. These labs are practical for classroom use.

4. **Concepts and application of skills to real-life situations are introduced when appropriate.**

Rating: Strong

Comments: Kentucky Core Content and Program of Studies for the 8th grade is covered well. Mini-labs provide opportunity for students to apply and explore content. These labs are practical for classroom use.

5. **Content appears to be free of social, ethnic, racial, religious, gender, and geographic bias.**

Rating: Strong
Comments: Kentucky Core Content and Program of Studies for the 8th grade is covered well. Mini-labs provide opportunity for students to apply and explore content. These labs are practical for classroom use.

6. Material is flexible and accommodates various learning styles, interest/ability levels, and intelligences, including adaptations and accommodations for students with special needs.
Rating: Strong
Comments: Kentucky Core Content and Program of Studies for the 8th grade is covered well. Mini-labs provide opportunity for students to apply and explore content. These labs are practical for classroom use.

7. Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.
Rating: Strong
Comments: Kentucky Core Content and Program of Studies for the 8th grade is covered well. Mini-labs provide opportunity for students to apply and explore content. These labs are practical for classroom use.

8. Content reflects research-based practices (e.g., hands-on activities, technology, problem-solving situations).
Rating: Strong
Comments: Kentucky Core Content and Program of Studies for the 8th grade is covered well. Mini-labs provide opportunity for students to apply and explore content. These labs are practical for classroom use.

9. Concepts are explored in depth and reinforced throughout.
Rating: Strong
Comments: Kentucky Core Content and Program of Studies for the 8th grade is covered well. Mini-labs provide opportunity for students to apply and explore content. These labs are practical for classroom use.

Assessment

1. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.
Rating: Strong
Comments:

2. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.
Rating: Strong
Comments:

3. **Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.**

Rating: Strong
Comments:

4. **A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**

Rating: Strong
Comments:

5. **Assessment activities provide opportunities for student integration of technology in the assessment process.**

Rating: Strong
Comments:

6. **Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

Rating: Strong
Comments:

7. **Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

Rating: Strong
Comments:

8. **Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.**

Rating: Strong
Comments:

9. **Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.**

Rating: Strong
Comments:

10. **A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**

Rating: Strong
Comments:

11. Assessment activities provide opportunities for student integration of technology in the assessment process.
Rating: Strong
Comments:

Organization and Structure

1. Organization is logical and allows for spiraling of content.
Rating: Strong
Comments:

2. Language is clear and concise with correct grammar and sentence structure.
Rating: Strong
Comments:

3. Vocabulary and key terms are clearly defined and easily accessible within each lesson.
Rating: Strong
Comments:

4. Visual illustrations (e.g., graphs, charts, models) and examples are clearly presented and content-related.
Rating: Strong
Comments:

5. Illustrations and language reflect diversity (e.g., racial, ethnic, cultural, age, gender, disabilities).
Rating: Strong
Comments:

6. Legible type, length of lines, spacing, page layout, and width of margins contribute to overall appearance and use.
Rating: Strong
Comments:

7. Student materials seem durable and conducive to daily student use (e.g., size, weight).
Rating: Strong
Comments:

8. Textbook includes appropriate and sufficient glossary, index, and appendices.

Rating: Strong
Comments:

9. **Materials are organized into units of study (or similar structures) with daily lessons that include worthwhile, real-world tasks.**

Rating: Strong
Comments:

10. **Materials can be easily understood by students and parents.**

Rating: Strong
Comments:

Student Experiences

1. **The program emphasizes students *doing* mathematics rather than *memorizing* mathematics.**

Rating: Strong
Comments: Again, the mini-labs are great. They keep students active and involved.

2. **Both group and individual activities are included.**

Rating: Strong
Comments: Again, the mini-labs are great. They keep students active and involved.

3. **Materials and activities provide authentic applications that allow students to make meaningful connections across the curriculum, to real-world situations, and to interrelated mathematical concepts.**

Rating: Strong
Comments: Again, the mini-labs are great. They keep students active and involved.

4. **Materials and activities encourage students to explore and investigate mathematical ideas through various problem-solving techniques.**

Rating: Strong
Comments: Again, the mini-labs are great. They keep students active and involved.

5. **Materials and activities encourage students to read, write, and discuss mathematics.**

Rating: Strong
Comments: Again, the mini-labs are great. They keep students active and involved.

6. Materials and activities ask students to reflect upon, clarify, justify, and generalize their mathematical ideas.
Rating: Strong
Comments: Again, the mini-labs are great. They keep students active and involved.

Technology

1. In order for students to focus on decision-making, reflection, reasoning, and problem solving, instructional activities incorporate the use of technology (e.g. calculators, probes, computers) and include instructions on how to use the technology tools.
Rating: Strong
Comments:

2. Various forms of media are included (e.g., CDs, videos, computer software).
Rating: Strong
Comments:

3. Student materials are available online.
Rating: Strong
Comments:

Resource Materials

1. Teacher materials coordinate easily with student materials (e.g., additional resources included at point of need, student pages shown, manipulatives appropriate for indicated lesson, instructional technology indicated).
Rating: Strong
Comments:

2. Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.
Rating: Strong
Comments:

3. Extension activities including adaptations and accommodations for students with special needs.
Rating: Strong
Comments:

4. Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections within mathematics, and references (e.g., solutions manuals, study guides).

Rating: Strong
Comments:

5. Suggestions are made for integration of themes and/or interdisciplinary instruction.
Rating: Strong
Comments:

6. Suggestions are made for family and community involvement and school/home communication.
Rating: Strong
Comments:

7. The included media are durable, easy to use, and have technical merit.
Rating: Strong
Comments:

8. Teacher resources are available online.
Rating: Strong
Comments:

Mathematics Applications and Connections Course I

Publisher: Glencoe/McGraw-Hill

Evaluator Name(s): McNew, Melinda Wilson, Kellie

Content Level: 1

Overall Strengths and/or Weaknesses

Disclaimer: Comments on the strengths and/or weaknesses of each book or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions. They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/Instructional Materials Review team completed each evaluation form during the week of July 8-12, 2002. In order to maintain the integrity of the review team's comments, editing was limited to spelling and punctuation.

CONTENT/PROCESS

Strengths: Kentucky's Core Content and Program of Studies were deeply embedded throughout the text. Especially noteworthy are the mini-labs that are practical for teachers and address core content. We also were impressed by how various learning styles were addressed through the different levels of assessment provided.

Weaknesses: No weaknesses were noted.

ASSESSMENT

Strengths: A variety of assessment tools were provided which were directly linked to learning activities.

Weaknesses: There did not appear to be a lot of assessment questions in the CATS open response format.

ORGANIZATION AND STRUCTURE

Strengths: The textbook had logical organization with strong visual examples. It also provided daily worthwhile tasks.

Weaknesses: No weaknesses were noted.

STUDENT EXPERIENCES

Strengths: Textbook emphasized doing instead of memorizing through mini-labs. These mini-labs keep students active and involved. The "What will I learn?" and "When will I use this?" questions help guide the students through each lesson.

Weaknesses: No weaknesses were noted.

TECHNOLOGY

Strength: Various forms of media are included for both student and teacher use. There are student activities involving technology embedded in the textbook.

Weaknesses: No weaknesses were noted.

RESOURCE MATERIALS

Strengths: Teacher materials coordinate easily with student materials. Activities address various learning styles and interest/ability levels.

Weaknesses: The resource materials provide activities for integration of both science and careers, but other subjects did not appear to be addressed as explicitly. We did note connections to other content areas within the student text for some chapters in an Integration Activity section.

If this material is available in digital format, KDE strongly recommends that it be considered if there are students in the school who have a need for this type of material. **Is Not Available in digital format**

Mathematics Applications and Connections Course I

Publisher: Glencoe/McGraw-Hill

Recommended by reviewers to State Textbook Commission as a basal textbook or program.

OTHER COMMENTS:

PUBLISHER'S EXPLANATION OF REVIEWERS' COMMENTS

(By action of the State Textbook Commission, publishers are being provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the written evaluation.)

STANDARDS FOR MATHEMATICS EVALUATION INSTRUMENT

Content/Process

1. **Material is comprehensive and includes content emphasized in Kentucky's Learning Goals and Academic Expectations and supported by the Core Content for Assessment, Program of Studies, and relevant National Standards.**

Rating: Strong
Comments: Mini-labs are very useful for hands-on, real world application and practical for real classroom use.

2. **Content appears to be free from factual errors.**

Rating: Strong
Comments: Mini-labs are very useful for hands-on, real world application and practical for real classroom use.

3. **Content makes connections to other content areas across the curriculum.**

Rating: Strong
Comments: Mini-labs are very useful for hands-on, real world application and practical for real classroom use.

4. **Concepts and application of skills to real-life situations are introduced when appropriate.**

Rating: Strong
Comments: Mini-labs are very useful for hands-on, real world application and practical for real classroom use.

5. **Content appears to be free of social, ethnic, racial, religious, gender, and geographic bias.**

Rating: Strong
Comments: Mini-labs are very useful for hands-on, real world application and practical for real classroom use.

6. **Material is flexible and accommodates various learning styles, interest/ability levels, and intelligences, including adaptations and accommodations for students with special needs.**

Rating: Strong
Comments: Mini-labs are very useful for hands-on, real world application and practical for real classroom use.

7. Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.
Rating: Strong
Comments: Mini-labs are very useful for hands-on, real world application and practical for real classroom use.

8. Content reflects research-based practices (e.g., hands-on activities, technology, problem-solving situations).
Rating: Strong
Comments: Mini-labs are very useful for hands-on, real world application and practical for real classroom use.

9. Concepts are explored in depth and reinforced throughout.
Rating: Strong
Comments: Mini-labs are very useful for hands-on, real world application and practical for real classroom use.

Assessment

1. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.
Rating: Strong
Comments:

2. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.
Rating: Strong
Comments:

3. Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.
Rating: Strong
Comments:

4. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.
Rating: Strong
Comments:

5. Assessment activities provide opportunities for student integration of technology in the assessment process.
Rating: Strong

Comments:

6. **Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**
Rating: Strong
Comments:

7. **Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**
Rating: Strong
Comments:

8. **Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.**
Rating: Strong
Comments:

9. **Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.**
Rating: Strong
Comments:

10. **A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**
Rating: Strong
Comments:

11. **Assessment activities provide opportunities for student integration of technology in the assessment process.**
Rating: Strong
Comments:

Organization and Structure

1. **Organization is logical and allows for spiraling of content.**
Rating: Strong
Comments:

2. **Language is clear and concise with correct grammar and sentence structure.**

Rating: Strong
Comments:

3. Vocabulary and key terms are clearly defined and easily accessible within each lesson.
Rating: Strong
Comments:

4. Visual illustrations (e.g., graphs, charts, models) and examples are clearly presented and content-related.
Rating: Strong
Comments:

5. Illustrations and language reflect diversity (e.g., racial, ethnic, cultural, age, gender, disabilities).
Rating: Strong
Comments:

6. Legible type, length of lines, spacing, page layout, and width of margins contribute to overall appearance and use.
Rating: Strong
Comments:

7. Student materials seem durable and conducive to daily student use (e.g., size, weight).
Rating: Strong
Comments:

8. Textbook includes appropriate and sufficient glossary, index, and appendices.
Rating: Strong
Comments:

9. Materials are organized into units of study (or similar structures) with daily lessons that include worthwhile, real-world tasks.
Rating: Strong
Comments:

10. Materials can be easily understood by students and parents.
Rating: Strong
Comments:

Mathematics Applications and Connections Course I

Publisher: Glencoe/McGraw-Hill

Student Experiences

1. The program emphasizes students *doing* mathematics rather than *memorizing* mathematics.
Rating: Strong
Comments: Mini-labs keep students active and involved with content.

2. Both group and individual activities are included.
Rating: Strong
Comments: Mini-labs keep students active and involved with content.

3. Materials and activities provide authentic applications that allow students to make meaningful connections across the curriculum, to real-world situations, and to interrelated mathematical concepts.
Rating: Strong
Comments: Mini-labs keep students active and involved with content.

4. Materials and activities encourage students to explore and investigate mathematical ideas through various problem-solving techniques.
Rating: Strong
Comments: Mini-labs keep students active and involved with content.

5. Materials and activities encourage students to read, write, and discuss mathematics.
Rating: Strong
Comments: Mini-labs keep students active and involved with content.

6. Materials and activities ask students to reflect upon, clarify, justify, and generalize their mathematical ideas.
Rating: Strong
Comments: Mini-labs keep students active and involved with content.

Technology

1. In order for students to focus on decision-making, reflection, reasoning, and problem solving, instructional activities incorporate the use of technology (e.g. calculators, probes, computers) and include instructions on how to use the technology tools.
Rating: Strong
Comments:

2. Various forms of media are included (e.g., CDs, videos, computer software).

Rating: Strong
Comments:

3. Student materials are available online.
Rating: Strong
Comments:

Resource Materials

1. Teacher materials coordinate easily with student materials (e.g., additional resources included at point of need, student pages shown, manipulatives appropriate for indicated lesson, instructional technology indicated).
Rating: Strong
Comments:

2. Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.
Rating: Strong
Comments:

3. Extension activities including adaptations and accommodations for students with special needs.
Rating: Strong
Comments:

4. Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections within mathematics, and references (e.g., solutions manuals, study guides).
Rating: Strong
Comments:

5. Suggestions are made for integration of themes and/or interdisciplinary instruction.
Rating: Strong
Comments:

6. Suggestions are made for family and community involvement and school/home communication.
Rating: Strong
Comments:

7. The included media are durable, easy to use, and have technical merit.

Rating: Strong
Comments:

8. Teacher resources are available online.
Rating: Strong
Comments:

MathMatters 1

Publisher: Glencoe/McGraw-Hill

Evaluator Name(s): McNew, Melinda Wilson, Kellie

Content Level: Algebra 1 & Geometry (Over 3 year span)

Overall Strengths and/or Weaknesses

Disclaimer: Comments on the strengths and/or weaknesses of each book or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions. They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/Instructional Materials Review team completed each evaluation form during the week of July 8-12, 2002. In order to maintain the integrity of the review team's comments, editing was limited to spelling and punctuation.

CONTENT/PROCESS
Strengths: The text does a good job relating its content to real life, and it is able to expand across the curriculum.
Weaknesses: Because this is the first book in a series of three, it introduces most of the high school KY core content, but this text does not go in-depth into the content.

ASSESSMENT
Strengths: The assessment does correspond with the learning activities in the text.
Weaknesses: Technology activities provided in the teacher resources could possibly be used as assessments, but no other technology is noted.

ORGANIZATION AND STRUCTURE
Strengths: Organization is logical, and the format can be easily understood by students and parents.
Weaknesses: No significant weaknesses were noted.

STUDENT EXPERIENCES
Strengths: The book allows students to make meaningful connections to real life and provides opportunities for interdisciplinary study.
Weaknesses: Elements key to successful CATS scores, like writing in math and problem solving, are not strong throughout.

TECHNOLOGY
Strength: We do not believe this series is innovative in technology.
Weaknesses: Technology is rarely mentioned in the text, but there is one supplemental resource. No CDs, videos, or computer software.

RESOURCE MATERIALS
Strengths: Resource materials coordinate with the text, and they include real life problems and provide opportunities for students to work across the curriculum.
Weaknesses: There was not a significant amount of supplemental resources compared to comparable series.

If this material is available in digital format, KDE strongly recommends that it be considered if there are students in the school who have a need for this type of material. **Is Not Available in digital format**

Recommended by reviewers to State Textbook Commission as a basal textbook or program.

MathMatters 1

Publisher: Glencoe/McGraw-Hill

OTHER COMMENTS: The recommendation of this text is made with the idea that it would be the first a series of three. Together they more completely cover the high school core content for algebra and geometry. Standing alone this text would not completely cover KY core content.

PUBLISHER'S EXPLANATION OF REVIEWERS' COMMENTS

(By action of the State Textbook Commission, publishers are being provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the written evaluation.)

STANDARDS FOR MATHEMATICS EVALUATION INSTRUMENT

Content/Process

1. **Material is comprehensive and includes content emphasized in Kentucky's Learning Goals and Academic Expectations and supported by the Core Content for Assessment, Program of Studies, and relevant National Standards.**

Rating: Adequate
Comments: Because this is the first book in a series of three, it at least introduces most of the high school KY core content.

2. **Content appears to be free from factual errors.**

Rating: Adequate
Comments: Because this is the first book in a series of three, it at least introduces most of the high school KY core content.

3. **Content makes connections to other content areas across the curriculum.**

Rating: Adequate
Comments: Because this is the first book in a series of three, it at least introduces most of the high school KY core content.

4. **Concepts and application of skills to real-life situations are introduced when appropriate.**

Rating: Adequate
Comments: Because this is the first book in a series of three, it at least introduces most of the high school KY core content.

5. **Content appears to be free of social, ethnic, racial, religious, gender, and geographic bias.**

Rating: Adequate
Comments: Because this is the first book in a series of three, it at least introduces most of the high school KY core content.

6. **Material is flexible and accommodates various learning styles, interest/ability levels, and intelligences, including adaptations and accommodations for students with special needs.**

Rating: Adequate
Comments: Because this is the first book in a series of three, it at least introduces most of the high school KY core content.

7. Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.
Rating: Adequate
Comments: Because this is the first book in a series of three, it at least introduces most of the high school KY core content.

8. Content reflects research-based practices (e.g., hands-on activities, technology, problem-solving situations).
Rating: Adequate
Comments: Because this is the first book in a series of three, it at least introduces most of the high school KY core content.

9. Concepts are explored in depth and reinforced throughout.
Rating: Adequate
Comments: Because this is the first book in a series of three, it at least introduces most of the high school KY core content.

Assessment

1. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.
Rating: Strong
Comments:

2. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.
Rating: Strong
Comments:

3. Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.
Rating: Strong
Comments:

4. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.
Rating: Strong
Comments:

5. Assessment activities provide opportunities for student integration of technology in the assessment process.
Rating: Strong
Comments:

6. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.
Rating: Strong
Comments:

7. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.
Rating: Strong
Comments:

8. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.
Rating: Strong
Comments:

9. Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.
Rating: Strong
Comments:

10. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.
Rating: Strong
Comments:

11. Assessment activities provide opportunities for student integration of technology in the assessment process.
Rating: Strong
Comments:

Organization and Structure

1. Organization is logical and allows for spiraling of content.
Rating: Strong
Comments:

2. Language is clear and concise with correct grammar and sentence structure.
Rating: Strong
Comments:

3. Vocabulary and key terms are clearly defined and easily accessible within each lesson.
Rating: Strong
Comments:

4. Visual illustrations (e.g., graphs, charts, models) and examples are clearly presented and content-related.
Rating: Strong
Comments:

5. Illustrations and language reflect diversity (e.g., racial, ethnic, cultural, age, gender, disabilities).
Rating: Strong
Comments:

6. Legible type, length of lines, spacing, page layout, and width of margins contribute to overall appearance and use.
Rating: Strong
Comments:

7. Student materials seem durable and conducive to daily student use (e.g., size, weight).
Rating: Strong
Comments:

8. Textbook includes appropriate and sufficient glossary, index, and appendices.
Rating: Strong
Comments:

9. Materials are organized into units of study (or similar structures) with daily lessons that include worthwhile, real-world tasks.
Rating: Strong
Comments:

10. Materials can be easily understood by students and parents.
Rating: Strong

Comments:

Student Experiences

1. The program emphasizes students *doing* mathematics rather than *memorizing* mathematics.
Rating: Strong
Comments:

2. Both group and individual activities are included.
Rating: Strong
Comments:

3. Materials and activities provide authentic applications that allow students to make meaningful connections across the curriculum, to real-world situations, and to interrelated mathematical concepts.
Rating: Strong
Comments:

4. Materials and activities encourage students to explore and investigate mathematical ideas through various problem-solving techniques.
Rating: Strong
Comments:

5. Materials and activities encourage students to read, write, and discuss mathematics.
Rating: Strong
Comments:

6. Materials and activities ask students to reflect upon, clarify, justify, and generalize their mathematical ideas.
Rating: Strong
Comments:

Technology

1. In order for students to focus on decision-making, reflection, reasoning, and problem solving, instructional activities incorporate the use of technology (e.g. calculators, probes, computers) and include instructions on how to use the technology tools.
Rating: Weak

Comments: There is a supplemental resource that provides activities for the use of technology. In addition, the text provides opportunity for the use of technology through problems in its exercise section, but these problems do not include instructions on how to use the technology.

2. Various forms of media are included (e.g., CDs, videos, computer software).
Rating: Weak
Comments: There is a supplemental resource that provides activities for the use of technology. In addition, the text provides opportunity for the use of technology through problems in its exercise section, but these problems do not include instructions on how to use the technology.

3. Student materials are available online.
Rating: Weak
Comments: There is a supplemental resource that provides activities for the use of technology. In addition, the text provides opportunity for the use of technology through problems in its exercise section, but these problems do not include instructions on how to use the technology.

Resource Materials

1. **Teacher materials coordinate easily with student materials (e.g., additional resources included at point of need, student pages shown, manipulatives appropriate for indicated lesson, instructional technology indicated).**

Rating: Strong
Comments:

2. **Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.**

Rating: Strong
Comments:

3. **Extension activities including adaptations and accommodations for students with special needs.**

Rating: Strong
Comments:

4. **Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections within mathematics, and references (e.g., solutions manuals, study guides).**

Rating: Strong
Comments:

5. Suggestions are made for integration of themes and/or interdisciplinary instruction.
Rating: Strong
Comments:

6. Suggestions are made for family and community involvement and school/home communication.
Rating: Strong
Comments:

7. The included media are durable, easy to use, and have technical merit.
Rating: Strong
Comments:

8. Teacher resources are available online.
Rating: Strong
Comments:

MathMatters 2

Publisher: Glencoe/McGraw-Hill

Evaluator Name(s): McNew, Melinda Wilson, Kellie
Content Level: Algebra 1 & Geometry (Over 3 year span)

Overall Strengths and/or Weaknesses

Disclaimer: Comments on the strengths and/or weaknesses of each book or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions. They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/Instructional Materials Review team completed each evaluation form during the week of July 8-12, 2002. In order to maintain the integrity of the review team's comments, editing was limited to spelling and punctuation.

CONTENT/PROCESS
Strengths: The text does a good job relating its content to real life, and it is able to expand across the curriculum. There is a unit devoted to problem solving and logic in this book.
Weaknesses: The student text includes the use of manipulatives where appropriate, but it does not seem to have an innovative use of technology.

ASSESSMENT
Strengths: The assessment does correspond with the learning activities in the text.
Weaknesses: Technology activities provided in the teacher resources could possibly be used as assessments, but no other technology is noted.

ORGANIZATION AND STRUCTURE
Strengths: Organization is logical, and the format can be easily understood by students and parents.
Weaknesses: No significant weaknesses were noted.

STUDENT EXPERIENCES
Strengths: The book allows students to make meaningful connections to real life and provides opportunities for interdisciplinary study. This book raises the level of problem solving required compared to the first book in the series.
Weaknesses: Elements key to successful CATS scores, like writing in math, are not strong throughout.

TECHNOLOGY
Strength: We do not believe this series is innovative in technology.
Weaknesses: Technology is rarely mentioned in the text, but there is one supplemental resource. No CDs, videos, or computer software.

RESOURCE MATERIALS
Strengths: Resource materials coordinate with the text, and they include real life problems and provide opportunities for students to work across the curriculum.
Weaknesses: There was not a significant amount of supplemental resources compared to comparable series.

If this material is available in digital format, KDE strongly recommends that it be considered if there are students in the school who have a need for this type of material. **Is Not Available in digital format**

Recommended by reviewers to State Textbook Commission as a basal textbook or program.

OTHER COMMENTS: The recommendation of this text is made with the idea that it would be the second in a series of three. Together they more completely cover the high school core content for algebra and geometry. Without completing Math Matters I, students might find this text too difficult.

PUBLISHER'S EXPLANATION OF REVIEWERS' COMMENTS
(By action of the State Textbook Commission, publishers are being provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the written evaluation.)

STANDARDS FOR MATHEMATICS EVALUATION INSTRUMENT

Content/Process

1. **Material is comprehensive and includes content emphasized in Kentucky's Learning Goals and Academic Expectations and supported by the Core Content for Assessment, Program of Studies, and relevant National Standards.**

Rating: Adequate
Comments: Because this is the second book in a series of three, it takes the introduction of concepts from the first book to the next level of student understanding. The gaps in KY core content noted from book 1 are for the most part filled by book 2.

2. **Content appears to be free from factual errors.**

Rating: Adequate
Comments: Because this is the second book in a series of three, it takes the introduction of concepts from the first book to the next level of student understanding. The gaps in KY core content noted from book 1 are for the most part filled by book 2.

3. **Content makes connections to other content areas across the curriculum.**

Rating: Adequate
Comments: Because this is the second book in a series of three, it takes the introduction of concepts from the first book to the next level of student understanding. The gaps in KY core content noted from book 1 are for the most part filled by book 2.

4. **Concepts and application of skills to real-life situations are introduced when appropriate.**

Rating: Adequate
Comments: Because this is the second book in a series of three, it takes the introduction of concepts from the first book to the next level of student understanding. The gaps in KY core content noted from book 1 are for the most part filled by book 2.

5. **Content appears to be free of social, ethnic, racial, religious, gender, and geographic bias.**

Rating: Adequate
Comments: Because this is the second book in a series of three, it takes the introduction of concepts from the first book to the next level of student understanding. The gaps in KY core content noted from book 1 are for the most part filled by book 2.

6. Material is flexible and accommodates various learning styles, interest/ability levels, and intelligences, including adaptations and accommodations for students with special needs.
Rating: Adequate
Comments: Because this is the second book in a series of three, it takes the introduction of concepts from the first book to the next level of student understanding. The gaps in KY core content noted from book 1 are for the most part filled by book 2.

7. Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.
Rating: Adequate
Comments: Because this is the second book in a series of three, it takes the introduction of concepts from the first book to the next level of student understanding. The gaps in KY core content noted from book 1 are for the most part filled by book 2.

8. Content reflects research-based practices (e.g., hands-on activities, technology, problem-solving situations).
Rating: Adequate
Comments: Because this is the second book in a series of three, it takes the introduction of concepts from the first book to the next level of student understanding. The gaps in KY core content noted from book 1 are for the most part filled by book 2.

9. Concepts are explored in depth and reinforced throughout.
Rating: Adequate
Comments: Because this is the second book in a series of three, it takes the introduction of concepts from the first book to the next level of student understanding. The gaps in KY core content noted from book 1 are for the most part filled by book 2.

Assessment

1. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.
Rating: Strong
Comments:

2. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.
Rating: Strong
Comments:

3. **Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.**

Rating: Strong
Comments:

4. **A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**

Rating: Strong
Comments:

5. **Assessment activities provide opportunities for student integration of technology in the assessment process.**

Rating: Strong
Comments:

6. **Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

Rating: Strong
Comments:

7. **Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

Rating: Strong
Comments:

8. **Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.**

Rating: Strong
Comments:

9. **Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.**

Rating: Strong
Comments:

10. **A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**

Rating: Strong

Comments:

11. Assessment activities provide opportunities for student integration of technology in the assessment process.
Rating: Strong
Comments:

Organization and Structure

1. Organization is logical and allows for spiraling of content.
Rating: Strong
Comments:

2. Language is clear and concise with correct grammar and sentence structure.
Rating: Strong
Comments:

3. Vocabulary and key terms are clearly defined and easily accessible within each lesson.
Rating: Strong
Comments:

4. Visual illustrations (e.g., graphs, charts, models) and examples are clearly presented and content-related.
Rating: Strong
Comments:

5. Illustrations and language reflect diversity (e.g., racial, ethnic, cultural, age, gender, disabilities).
Rating: Strong
Comments:

6. Legible type, length of lines, spacing, page layout, and width of margins contribute to overall appearance and use.
Rating: Strong
Comments:

7. Student materials seem durable and conducive to daily student use (e.g., size, weight).
Rating: Strong
Comments:

8. Textbook includes appropriate and sufficient glossary, index, and appendices.
Rating: Strong
Comments:

9. Materials are organized into units of study (or similar structures) with daily lessons that include worthwhile, real-world tasks.
Rating: Strong
Comments:

10. Materials can be easily understood by students and parents.
Rating: Strong
Comments:

Student Experiences

1. The program emphasizes students *doing* mathematics rather than *memorizing* mathematics.
Rating: Strong
Comments:

2. Both group and individual activities are included.
Rating: Strong
Comments:

3. Materials and activities provide authentic applications that allow students to make meaningful connections across the curriculum, to real-world situations, and to interrelated mathematical concepts.
Rating: Strong
Comments:

4. Materials and activities encourage students to explore and investigate mathematical ideas through various problem-solving techniques.
Rating: Strong
Comments:

5. Materials and activities encourage students to read, write, and discuss mathematics.
Rating: Strong
Comments:

6. Materials and activities ask students to reflect upon, clarify, justify, and generalize their mathematical ideas.
Rating: Strong
Comments:

Technology

1. In order for students to focus on decision-making, reflection, reasoning, and problem solving, instructional activities incorporate the use of technology (e.g. calculators, probes, computers) and include instructions on how to use the technology tools.
Rating: Weak
Comments: There is a supplemental resource that provides activities for the use of technology. In addition, the text provides opportunity for the use of technology through problems in its exercise section, but these problems do not include instructions on how to use the technology.

2. Various forms of media are included (e.g., CDs, videos, computer software).
Rating: Weak
Comments: There is a supplemental resource that provides activities for the use of technology. In addition, the text provides opportunity for the use of technology through problems in its exercise section, but these problems do not include instructions on how to use the technology.

3. Student materials are available online.
Rating: Weak
Comments: There is a supplemental resource that provides activities for the use of technology. In addition, the text provides opportunity for the use of technology through problems in its exercise section, but these problems do not include instructions on how to use the technology.

Resource Materials

1. Teacher materials coordinate easily with student materials (e.g., additional resources included at point of need, student pages shown, manipulatives appropriate for indicated lesson, instructional technology indicated).
Rating: Strong
Comments:

2. Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.
Rating: Strong
Comments:

3. Extension activities including adaptations and accommodations for students with special needs.
Rating: Strong
Comments:

4. Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections within mathematics, and references (e.g., solutions manuals, study guides).
Rating: Strong
Comments:

5. Suggestions are made for integration of themes and/or interdisciplinary instruction.
Rating: Strong
Comments:

6. Suggestions are made for family and community involvement and school/home communication.
Rating: Strong
Comments:

7. The included media are durable, easy to use, and have technical merit.
Rating: Strong
Comments:

8. Teacher resources are available online.
Rating: Strong
Comments:

MathMatters 3

Publisher: Glencoe/McGraw-Hill

Evaluator Name(s): McNew, Melinda Wilson, Kellie

Content Level: Algebra 1 & Geometry (Over 3 year span)

Overall Strengths and/or Weaknesses

Disclaimer: Comments on the strengths and/or weaknesses of each book or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions. They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/Instructional Materials Review team completed each evaluation form during the week of July 8-12, 2002. In order to maintain the integrity of the review team's comments, editing was limited to spelling and punctuation.

CONTENT/PROCESS

Strengths: The text does a good job relating its content to real life, and it is able to expand across the curriculum. It seems to take a big step towards higher level mathematics both in the ideas/processes presented and the vocabulary used. It certainly completes the Algebra I and Geometry Core Content requirements.

Weaknesses: The student text includes the use of manipulatives where appropriate, but it does not seem to have an innovative use of technology.

ASSESSMENT

Strengths: The assessment does correspond with the learning activities in the text.

Weaknesses: Technology activities provided in the teacher resources could possibly be used as assessments, but no other technology is noted.

ORGANIZATION AND STRUCTURE

Strengths: Organization is logical, and the format can be easily understood by students and parents.

Weaknesses: No significant weaknesses were noted.

STUDENT EXPERIENCES

Strengths: The book allows students to make meaningful connections to real life and provides opportunities for interdisciplinary study. This book truly extends the Algebra I/Geometry Core Content presented in Book 1 and Book 2.

Weaknesses: Elements key to successful CATS scores, like writing in math, are not strong throughout.

TECHNOLOGY

Strength: We do not believe this series is innovative in technology.

Weaknesses: Technology is rarely mentioned in the text, but there is one supplemental resource. No CDs, videos, or computer software.

RESOURCE MATERIALS

Strengths: Resource materials coordinate with the text, and they include real life problems and provide opportunities for students to work across the curriculum.

Weaknesses: There was not a significant amount of supplemental resources compared to comparable series.

If this material is available in digital format, KDE strongly recommends that it be considered if there are students in the school who have a need for this type of material. **Is Not Available in digital format**

Recommended by reviewers to State Textbook Commission as a basal textbook or program.

MathMatters 3

Publisher: Glencoe/McGraw-Hill

OTHER COMMENTS: The recommendation of this text is made with the idea that it would be the third in a series of three. Together they more completely cover the high school core content for algebra and geometry. Without completing Math Matters I & II, students might find this text too difficult.

PUBLISHER'S EXPLANATION OF REVIEWERS' COMMENTS

(By action of the State Textbook Commission, publishers are being provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the written evaluation.)

STANDARDS FOR MATHEMATICS EVALUATION INSTRUMENT

Content/Process

1. **Material is comprehensive and includes content emphasized in Kentucky's Learning Goals and Academic Expectations and supported by the Core Content for Assessment, Program of Studies, and relevant National Standards.**

Rating: Adequate

Comments: Because this is the third book in a series of three, it takes the introduction of concepts from the first book and the extended learning experiences from the second book, then completes the Algebra I and Geometry Core Content. The gaps in KY core content noted from book 1 are filled by book 2 and book 3.

2. **Content appears to be free from factual errors.**

Rating: Adequate

Comments: Because this is the third book in a series of three, it takes the introduction of concepts from the first book and the extended learning experiences from the second book, then completes the Algebra I and Geometry Core Content. The gaps in KY core content noted from book 1 are filled by book 2 and book 3.

3. **Content makes connections to other content areas across the curriculum.**

Rating: Adequate

Comments: Because this is the third book in a series of three, it takes the introduction of concepts from the first book and the extended learning experiences from the second book, then completes the Algebra I and Geometry Core Content. The gaps in KY core content noted from book 1 are filled by book 2 and book 3.

4. **Concepts and application of skills to real-life situations are introduced when appropriate.**

Rating: Adequate

Comments: Because this is the third book in a series of three, it takes the introduction of concepts from the first book and the extended learning experiences from the second book, then completes the Algebra I and Geometry Core Content. The gaps in KY core content noted from book 1 are filled by book 2 and book 3.

5. Content appears to be free of social, ethnic, racial, religious, gender, and geographic bias.
Rating: Adequate
Comments: Because this is the third book in a series of three, it takes the introduction of concepts from the first book and the extended learning experiences from the second book, then completes the Algebra I and Geometry Core Content. The gaps in KY core content noted from book 1 are filled by book 2 and book 3.

6. Material is flexible and accommodates various learning styles, interest/ability levels, and intelligences, including adaptations and accommodations for students with special needs.
Rating: Adequate
Comments: Because this is the third book in a series of three, it takes the introduction of concepts from the first book and the extended learning experiences from the second book, then completes the Algebra I and Geometry Core Content. The gaps in KY core content noted from book 1 are filled by book 2 and book 3.

7. Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.
Rating: Adequate
Comments: Because this is the third book in a series of three, it takes the introduction of concepts from the first book and the extended learning experiences from the second book, then completes the Algebra I and Geometry Core Content. The gaps in KY core content noted from book 1 are filled by book 2 and book 3.

8. Content reflects research-based practices (e.g., hands-on activities, technology, problem-solving situations).
Rating: Adequate
Comments: Because this is the third book in a series of three, it takes the introduction of concepts from the first book and the extended learning experiences from the second book, then completes the Algebra I and Geometry Core Content. The gaps in KY core content noted from book 1 are filled by book 2 and book 3.

9. Concepts are explored in depth and reinforced throughout.
Rating: Adequate
Comments: Because this is the third book in a series of three, it takes the introduction of concepts from the first book and the extended learning experiences from the second book, then completes the Algebra I and Geometry Core Content. The gaps in KY core content noted from book 1 are filled by book 2 and book 3.

Assessment

1. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.
Rating: Strong

Comments:

2. **Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.**

Rating: Strong
Comments:

3. **Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.**

Rating: Strong
Comments:

4. **A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**

Rating: Strong
Comments:

5. **Assessment activities provide opportunities for student integration of technology in the assessment process.**

Rating: Strong
Comments:

6. **Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

Rating: Strong
Comments:

7. **Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

Rating: Strong
Comments:

8. **Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.**

Rating: Strong
Comments:

9. **Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.**

Rating: Strong
Comments:

10. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.
Rating: Strong
Comments:

11. Assessment activities provide opportunities for student integration of technology in the assessment process.
Rating: Strong
Comments:

Organization and Structure

1. Organization is logical and allows for spiraling of content.
Rating: Strong
Comments:

2. Language is clear and concise with correct grammar and sentence structure.
Rating: Strong
Comments:

3. Vocabulary and key terms are clearly defined and easily accessible within each lesson.
Rating: Strong
Comments:

4. Visual illustrations (e.g., graphs, charts, models) and examples are clearly presented and content-related.
Rating: Strong
Comments:

5. Illustrations and language reflect diversity (e.g., racial, ethnic, cultural, age, gender, disabilities).
Rating: Strong
Comments:

6. Legible type, length of lines, spacing, page layout, and width of margins contribute to overall appearance and use.
Rating: Strong

Comments:

7. Student materials seem durable and conducive to daily student use (e.g., size, weight).
Rating: Strong
Comments:

8. Textbook includes appropriate and sufficient glossary, index, and appendices.
Rating: Strong
Comments:

9. Materials are organized into units of study (or similar structures) with daily lessons that include worthwhile, real-world tasks.
Rating: Strong
Comments:

10. Materials can be easily understood by students and parents.
Rating: Strong
Comments:

Student Experiences

1. The program emphasizes students *doing* mathematics rather than *memorizing* mathematics.
Rating: Strong
Comments:

2. Both group and individual activities are included.
Rating: Strong
Comments:

3. Materials and activities provide authentic applications that allow students to make meaningful connections across the curriculum, to real-world situations, and to interrelated mathematical concepts.
Rating: Strong
Comments:

4. Materials and activities encourage students to explore and investigate mathematical ideas through various problem-solving techniques.

Rating: Strong
Comments:

5. Materials and activities encourage students to read, write, and discuss mathematics.
Rating: Strong
Comments:

6. Materials and activities ask students to reflect upon, clarify, justify, and generalize their mathematical ideas.
Rating: Strong
Comments:

Technology

1. In order for students to focus on decision-making, reflection, reasoning, and problem solving, instructional activities incorporate the use of technology (e.g. calculators, probes, computers) and include instructions on how to use the technology tools.
Rating: Weak
Comments: There is a supplemental resource that provides activities for the use of technology. In addition, the text provides opportunity for the use of technology through problems in its exercise section, but these problems do not include instructions on how to use the technology.

2. Various forms of media are included (e.g., CDs, videos, computer software).
Rating: Weak
Comments: There is a supplemental resource that provides activities for the use of technology. In addition, the text provides opportunity for the use of technology through problems in its exercise section, but these problems do not include instructions on how to use the technology.

3. Student materials are available online.
Rating: Weak
Comments: There is a supplemental resource that provides activities for the use of technology. In addition, the text provides opportunity for the use of technology through problems in its exercise section, but these problems do not include instructions on how to use the technology.

Resource Materials

1. Teacher materials coordinate easily with student materials (e.g., additional resources included at point of need, student pages shown, manipulatives appropriate for indicated lesson, instructional technology indicated).

Rating: Strong
Comments:

2. Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.
Rating: Strong
Comments:

3. Extension activities including adaptations and accommodations for students with special needs.
Rating: Strong
Comments:

4. Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections within mathematics, and references (e.g., solutions manuals, study guides).
Rating: Strong
Comments:

5. Suggestions are made for integration of themes and/or interdisciplinary instruction.
Rating: Strong
Comments:

6. Suggestions are made for family and community involvement and school/home communication.
Rating: Strong
Comments:

7. The included media are durable, easy to use, and have technical merit.
Rating: Strong
Comments:

8. Teacher resources are available online.
Rating: Strong
Comments:

Pre-Algebra

Publisher: Glencoe/McGraw-Hill

Evaluator Name(s): McNew, Melinda Wilson, Kellie

Content Level: Pre-Algebra

Overall Strengths and/or Weaknesses

Disclaimer: Comments on the strengths and/or weaknesses of each book or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions. They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/Instructional Materials Review team completed each evaluation form during the week of July 8-12, 2002. In order to maintain the integrity of the review team's comments, editing was limited to spelling and punctuation.

CONTENT/PROCESS
Strengths: Number Computation and Algebraic Ideas are covered thoroughly and meet all Kentucky Core Content and Program of Studies requirements. Supplemental resources, such as CD-ROMs, provide excellent opportunities to address different learning styles.
Weaknesses: There were some elements within the Geometry/Measurement and Probability/Statistics strands that were not addressed, possibly due to the Pre-Algebra focus and format of the text.

ASSESSMENT
Strengths: The text forces students to read and write about mathematics, which correlates with the CATS assessment format.
Weaknesses: No weaknesses were noted.

ORGANIZATION AND STRUCTURE
Strengths: Organization is clear and consistent within the student text. Key Concepts are highlighted, as well as important vocabulary terms.
Weaknesses: No weaknesses were noted.

STUDENT EXPERIENCES
Strengths: The text allows for students to actively explore different areas of mathematics. Students are encouraged to read or write about math.
Weaknesses: No weaknesses were noted

TECHNOLOGY
Strength: This series is very innovative and exciting with its technology resources. The student edition offered on CD-ROM can be very useful and the Powerpoints offered for each chapter are wonderful.
Weaknesses: No weaknesses were noted.

RESOURCE MATERIALS
Strengths: Resources are comparable to other series.
Weaknesses: No weaknesses were noted

If this material is available in digital format, KDE strongly recommends that it be considered if there are students in the school who have a need for this type of material. **Is Not Available in digital format**

Recommended by reviewers to State Textbook Commission as a basal textbook or program.

OTHER COMMENTS:

PUBLISHER'S EXPLANATION OF REVIEWERS' COMMENTS
(By action of the State Textbook Commission, publishers are being provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the written evaluation.)
In response to the comment that some elements within the geometry/measurement and probability/statistics strands were not addressed, please refer to the Geometry/Measurement and Probability/Statistics sections of our Pre-Algebra c. 2003 correlation of lessons containing each Kentucky Strand.

STANDARDS FOR MATHEMATICS EVALUATION INSTRUMENT

Content/Process

1. **Material is comprehensive and includes content emphasized in Kentucky's Learning Goals and Academic Expectations and supported by the Core Content for Assessment, Program of Studies, and relevant National Standards.**

Rating: Adequate
Comments: The text is very strong in Number Computation and Algebraic Ideas. While it is certainly adequate in Geometry/Measurement and Probability/Statistics, it is lacking in some elements of Kentucky's Core Content due to the Pre-Algebra focus and format.

2. **Content appears to be free from factual errors.**

Rating: Adequate
Comments: The text is very strong in Number Computation and Algebraic Ideas. While it is certainly adequate in Geometry/Measurement and Probability/Statistics, it is lacking in some elements of Kentucky's Core Content due to the Pre-Algebra focus and format.

3. **Content makes connections to other content areas across the curriculum.**

Rating: Adequate
Comments: The text is very strong in Number Computation and Algebraic Ideas. While it is certainly adequate in Geometry/Measurement and Probability/Statistics, it is lacking in some elements of Kentucky's Core Content due to the Pre-Algebra focus and format.

4. **Concepts and application of skills to real-life situations are introduced when appropriate.**

Rating: Adequate
Comments: The text is very strong in Number Computation and Algebraic Ideas. While it is certainly adequate in

Geometry/Measurement and Probability/Statistics, it is lacking in some elements of Kentucky's Core Content due to the Pre-Algebra focus and format.

5. Content appears to be free of social, ethnic, racial, religious, gender, and geographic bias.
Rating: Adequate
Comments: The text is very strong in Number Computation and Algebraic Ideas. While it is certainly adequate in Geometry/Measurement and Probability/Statistics, it is lacking in some elements of Kentucky's Core Content due to the Pre-Algebra focus and format.

6. Material is flexible and accommodates various learning styles, interest/ability levels, and intelligences, including adaptations and accommodations for students with special needs.
Rating: Adequate
Comments: The text is very strong in Number Computation and Algebraic Ideas. While it is certainly adequate in Geometry/Measurement and Probability/Statistics, it is lacking in some elements of Kentucky's Core Content due to the Pre-Algebra focus and format.

7. Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.
Rating: Adequate
Comments: The text is very strong in Number Computation and Algebraic Ideas. While it is certainly adequate in Geometry/Measurement and Probability/Statistics, it is lacking in some elements of Kentucky's Core Content due to the Pre-Algebra focus and format.

8. Content reflects research-based practices (e.g., hands-on activities, technology, problem-solving situations).
Rating: Adequate
Comments: The text is very strong in Number Computation and Algebraic Ideas. While it is certainly adequate in Geometry/Measurement and Probability/Statistics, it is lacking in some elements of Kentucky's Core Content due to the Pre-Algebra focus and format.

9. Concepts are explored in depth and reinforced throughout.
Rating: Adequate
Comments: The text is very strong in Number Computation and Algebraic Ideas. While it is certainly adequate in Geometry/Measurement and Probability/Statistics, it is lacking in some elements of Kentucky's Core Content due to the Pre-Algebra focus and format.

Assessment

Pre-Algebra

Publisher: Glencoe/McGraw-Hill

1. **Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

Rating: Strong
Comments:

2. **Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.**

Rating: Strong
Comments:

3. **Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.**

Rating: Strong
Comments:

4. **A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**

Rating: Strong
Comments:

5. **Assessment activities provide opportunities for student integration of technology in the assessment process.**

Rating: Strong
Comments:

6. **Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

Rating: Strong
Comments:

7. **Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

Rating: Strong
Comments:

8. **Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.**

Rating: Strong
Comments:

9. Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.
Rating: Strong
Comments:

10. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.
Rating: Strong
Comments:

11. Assessment activities provide opportunities for student integration of technology in the assessment process.
Rating: Strong
Comments:

Organization and Structure

1. Organization is logical and allows for spiraling of content.
Rating: Strong
Comments:

2. Language is clear and concise with correct grammar and sentence structure.
Rating: Strong
Comments:

3. Vocabulary and key terms are clearly defined and easily accessible within each lesson.
Rating: Strong
Comments:

4. Visual illustrations (e.g., graphs, charts, models) and examples are clearly presented and content-related.
Rating: Strong
Comments:

5. Illustrations and language reflect diversity (e.g., racial, ethnic, cultural, age, gender, disabilities).
Rating: Strong
Comments:

6. Legible type, length of lines, spacing, page layout, and width of margins contribute to overall appearance and use.
Rating: Strong
Comments:

7. Student materials seem durable and conducive to daily student use (e.g., size, weight).
Rating: Strong
Comments:

8. Textbook includes appropriate and sufficient glossary, index, and appendices.
Rating: Strong
Comments:

9. Materials are organized into units of study (or similar structures) with daily lessons that include worthwhile, real-world tasks.
Rating: Strong
Comments:

10. Materials can be easily understood by students and parents.
Rating: Strong
Comments:

Student Experiences

1. The program emphasizes students *doing* mathematics rather than *memorizing* mathematics.
Rating: Strong
Comments: Algebra Activities are placed throughout the text and give students an opportunity to do mathematics that they have or will learn.

2. Both group and individual activities are included.
Rating: Strong
Comments: Algebra Activities are placed throughout the text and give students an opportunity to do mathematics that they have or will learn.

3. Materials and activities provide authentic applications that allow students to make meaningful connections across the curriculum, to real-world situations, and to interrelated mathematical concepts.
Rating: Strong

Comments: Algebra Activities are placed throughout the text and give students an opportunity to do mathematics that they have or will learn.

4. **Materials and activities encourage students to explore and investigate mathematical ideas through various problem-solving techniques.**

Rating: Strong
Comments: Algebra Activities are placed throughout the text and give students an opportunity to do mathematics that they have or will learn.

5. **Materials and activities encourage students to read, write, and discuss mathematics.**

Rating: Strong
Comments: Algebra Activities are placed throughout the text and give students an opportunity to do mathematics that they have or will learn.

6. **Materials and activities ask students to reflect upon, clarify, justify, and generalize their mathematical ideas.**

Rating: Strong
Comments: Algebra Activities are placed throughout the text and give students an opportunity to do mathematics that they have or will learn.

Technology

1. **In order for students to focus on decision-making, reflection, reasoning, and problem solving, instructional activities incorporate the use of technology (e.g. calculators, probes, computers) and include instructions on how to use the technology tools.**

Rating: Strong
Comments:

2. **Various forms of media are included (e.g., CDs, videos, computer software).**

Rating: Strong
Comments:

3. **Student materials are available online.**

Rating: Strong
Comments:

Resource Materials

Pre-Algebra

Publisher: Glencoe/McGraw-Hill

1. **Teacher materials coordinate easily with student materials (e.g., additional resources included at point of need, student pages shown, manipulatives appropriate for indicated lesson, instructional technology indicated).**

Rating: Strong
Comments:

2. **Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.**

Rating: Strong
Comments:

3. **Extension activities including adaptations and accommodations for students with special needs.**

Rating: Strong
Comments:

4. **Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections within mathematics, and references (e.g., solutions manuals, study guides).**

Rating: Strong
Comments:

5. **Suggestions are made for integration of themes and/or interdisciplinary instruction.**

Rating: Strong
Comments:

6. **Suggestions are made for family and community involvement and school/home communication.**

Rating: Strong
Comments:

7. **The included media are durable, easy to use, and have technical merit.**

Rating: Strong
Comments:

8. **Teacher resources are available online.**

Rating: Strong
Comments: